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GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MAGNETIC, METEOROLOGICAL, ATMOSPHERIC ELECTRIC AND SEISMOGRAPHIC OBSERVATIONS

MADE AT THE

GOVERNMENT OBSERVATORIES

BOMBAY AND ALIBAG

IN THE YEAR

1937

UNDER THE DIRECTION OF

K. R. RAMANATHAN, M.A., D.Sc.

REDUCED AND TABULATED UNDER THE DIRECTION OF

K. R. RAMANATHAN, M.A., D.Sc.

AND

S. R. SAVUR, M.A., PH.D. (LOND.)

Published by Authority of the Government of India

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INTRODUCTION.

This volume on the magnetic, meteorological, seismographic and atmospheric electric observations made at the Government Observatories, Bombay and Alibag, during the year 1937, is the fifty-ninth volume of its kind issued by the Observatory and extends the records of continuous meteorological and magnetic observations to a period of ninety-two years, of seismographic observations to a period of thirty-nine years, and of atmospheric potential gradient observations to a pericd of seven years. It has been prepared in the same form as the volume for the year 1936. The hourly values of all the important meteorological and magnetic elements have been given and these represent their average values over one hour and not their momentary values at the end of each hour. The hourly values of barometric pressure however refer to the exact hours. Columns have been added giving the daily means and the monthly mean hourly values of barometric pressure in millibars and of air temperature in degrees Centigrade. The mean values of potential gradient for the four hourly intervals, 2-3, 8-9, 14-15, and 20-21 hours B. M. T. have also been given.

The transfer of magnetic work from Colaba to Alibag in 1904, due to the decision of the city of Bombay to introduce electric tram service, caused a certain amount of discontinuity in the magnetic records, which had then run uninterruptedly at Colaba for about sixty years, but as comparative observations could be taken at both the stations for a period of two years before the electric tram lines were completed and the service commenced its operations, the ' discontinuity ' could be calculated and allowed for. The comparative observations showed that at Alibag, the horizontal component of magnetic force was lower by 0·00510 C. G. S. unit of force, easterly declination higher by 53′·5 and inclination higher by 1° 4′·7 than at Colaba, and these have been adopted differences between the values at the two sites. The figures published in this volume, like those in the previous volumes since 1906, have *not* been corrected for these differences.

A Milne-Shaw seismograph to record movements in N-S direction was installed in the underground constant temperature room in 1923 and another instrument to record E-W movements in 1930.

The Colaba Observatory is situated almost at the extreme south end of the narrow ridge of land extending about three miles to the south-west of the Fort of Bombay and separating the Harbour from the Back Bay. The mean level of the Observatory compound is about 32 feet above the mean level of the sea. The regular registration of meteorological observations in the Colaba Observatory commenced in November 1841.

The astronomical co-ordinates* giving the position of the Colaba Observatory are :—

Latitude	18° 53′ 36·18″ N.
Longitude	72° 48′ 54·03″ E.

The Alibag Magnetic Observatory is situated on the main land about 18 miles south-south-east of Bombay, and its astronomical co-ordinates are—

Latitude	18° 38′ 17″ N.
Longitude	72° 52′ 21″ E.

For a general description of the buildings and instruments in both the Observatories, see "Magnetical, Meteorological and Seismographic Observations made at the Government Observatories, Bombay and Alibag, 1906—1910," and also the similar volume for 1916—20.

Unless otherwise stated, all times given in this volume refer to local mean time.

Meteorological instruments at Colaba.

1. *Standard Barometer.*—The barometer by Newman (No. 58) which has been in un-interrupted use since the establishment of the Observatory remains the standard barometer of the observatory. It reads on an average 0·004″ below the Kew Standard and 0·012″ below the old Calcutta standard barometer. The height of the barometer is 37 feet above the mean sea-level. A subsidiary standard barometer, Newman No. 48, has also been maintained in the underground constant temperature room, and its reading agreed with that of the standard barometer on the average during the year. Since the 1st of January 1936, regular observations of the Newman barometer (No. 58) were discontinued and barometer No. 2880 of Fortin type by Calderara was brought into use for daily observations and its reading exceeded that of the standard barometer by ·011″ on the average during the year.

*Magnetic, Meteorological and Seismographic observations made at the Government Observatories, Bombay and Alibag, 1922, p. 1.

2. *Barograph.*—The instrument is of the Kew pattern and was installed in the underground constant temperature room in 1872. The level of the mercury is recorded photographically. The barograph has been treated, as in the past, as an independent instrument in respect of the variations of pressure occurring in the course of a day. A comparative study of the differences between the readings of the barograph and of the standard barometer for a large number of years indicates that these differences remain fairly constant and do not show variations at different hours of the day. The mean of the excesses of the eye observations of the barometer made at 8 hrs. (B. M. T.) and 17 hrs. (I. S. T.) on seven consecutive days over the corresponding barograph tabulations has been applied as a common correction to all the tabulated hourly readings of the day which is the fourth of the seven. **Unlike in the preceding year the values at exact hours have been tabulated.**

3. *Standard Dry bulb and Wet bulb Thermometers.*—On the 26th November 1917, the freezing points were tested and the zero of the dry bulb standard thermometer No. 401 was found to have changed from 32°·6F to 33°·0F and that of the wet bulb standard thermometer No. 402 from 32°·5F to 33°·0F. These thermometers were again tested on the 3rd February 1926 and on the 20th January 1937 and their corrections were found to be the same as those determined in 1917. Besides the above, there are eye reading dry bulb, wet bulb, maximum and minimum thermometers installed in a standard Stevenson Screen. The heights of the bulbs of the thermometers above the ground in the two sheds are given below :—

Thermograph Shed : Dry bulb 10′ ; Wet bulb 10′.

Stevenson Screen : ,, ,, 4′ 4½″ ; ,, ,, 4′ 4″ ; Max. 4′ 11½″ ; Min. 4′ 4″.

For the results of comparative observations of these thermometers see p. 2 of the volume for the year 1924.

4. *Kew Dry bulb and Wet bulb Thermograph.*—The bulbs of these thermograph thermometers are placed close to those of the standard dry and wet bulb thermometers in a large double-louvre shed constructed in 1872, and the temperatures are recorded photographically. The tables of air temperature have been obtained from the record of dry bulb and of humidity from those of the dry and wet bulb thermograms. The mean differences between the readings of the standard dry and wet bulb thermometers described in the preceding para. and the corresponding readings of the thermograms for the year 1937 were —0·3° and —0·1° respectively and were neglected.

5. *Robinson-Beckley's Anemograph.*—This anemograph is of the kind designed by Robinson, with improvements by Robert Beckley and has been in uninterrupted use in the Observatory since 1867, except that a new instrument of the same pattern and by the same makers was installed in 1907 to replace the old one. It is erected on the Anemometer Tower with its cups at a height of 58 feet above the ground and 100 feet above the mean sea-level. The centres of each pair of opposite hemi-spherical cups are four feet apart, and the diameter of each of the cups is 9 inches. The diameter of the vanes of the direction recorder is 15 inches and the breadth of the fans 4 inches.

6. *Dines' Anemograph, 1924 (velocity and direction).*—The old Dines' anemograph which was in continuous operation from 1896 and was provided with velocity recorder only was stopped in December 1929. A new Dines' anemograph with both velocity and direction recorders by R. W. Munro and Co. was received in 1923 and installed on the Anemometer Tower in January 1924. With a view to improve the exposure, its T-shaped head-vane was placed on the top of a telegraph post, 32·5 feet high, fixed on the Tower at a distance of 3 feet from the cups of the Robinson-Beckley's Anemograph and 127 feet above the mean sea-level. The diameter of the post near the Beckley's Anemograph is 8 inches and does not exercise appreciable influence on the records of Robinson-Beckley. The results of a series of comparisons of this instrument with a U-tube pressure-gauge showed that W, the difference in level of water in inches in the two arms of the U-tube, which is a measure of the pressure exerted by the wind, and V, the velocity of the wind in miles per hour as indicated in the charts, practically obey the standard rule, $W = \cdot 00073\ V^2$.

The height of the vane of this anemometer is 27 feet above that of the Beckley's cups. On account of the greater height, this instrument records a larger speed of wind. The ratio of the mean wind velocities recorded by the new Dines' anemograph

to those recorded by the Beckley's anemograph during 1924—37 is given below for the different months, seasons and the year :—

Ratio of Wind Velocities.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means. October to February.	Means. March to May.	Means. June to September.	Means. Year.
New Dines to Rob. Beckley (1924-37)	1·39	1·37	1·32	1·31	1·35	1·45	1·66	1·64	1·50	1·40	1·42	1·38	1·39	1·33	1·56	1·43

The hourly values of wind velocity and wind direction tabulated in this volume represent the averages from the Dines' records for periods of sixty minutes, from full hour to full hour of local mean time. The daily mean directions have been derived by converting the hourly velocity into N or S and E or W components and combining the mean components.

7. *Rain-gauge.*—Newman's rain-gauge, which has been in use since 1845, exposes for the collection of rain-drops at a height of four feet above the ground a circular surface of an average diameter of 12·035 inches, forming the top of the funnel, which opens into a cylindrical vessel below, having a diameter of 5·732 inches. Each division of the graduated rod resting on the float represents ·05 inch of rain and the readings of this scale are easily estimated to one-fifth of a division.

8. *Photographic Rain-gauge.*—This instrument takes a continuous record of rainfall by photographing the head of a mercury column balancing the rainfall collected in a glass vessel, with an arrangement for syphon discharge when full. A full description of this instrument will be found in the introduction to the " Bombay Magnetical and Meteorological Observations, 1877 to 1878 ", page xlvi. For methods of reduction of pluviograph records, reference is made to the introduction to the " Bombay Magnetical, Meteorological and Seismographic Observations, 1916—20 ". The height of the receiving funnel of this instrument is 28 feet above the ground. The pluviograph gave slightly higher value for rainfall than the Newman gauge.

For comparative study a syphon rain-gauge by L. Casella, London, was installed in the enclosure of the standard Newman rain-gauge on the 12th June 1930, so that the receiving funnels of both were at the same height. It was removed to a separate enclosure on the 28th April 1931 and its receiving funnel was kept at the standard height of 30 inches above the ground surface.

System of observation at Colaba.

From the beginning of 1929, eye observations of the barometer and thermometers at 10 hrs. and 16 hrs. were stopped but continued to be taken at 8 hrs. An afternoon observation at 17 hrs., Indian Standard Time, was however introduced from the 15th November 1929.

The eye observations at 8 hrs. (local time) and 17 hrs. (Indian Standard Time) were taken in the following order :—

From 5 minutes before the hour to 2 minutes after the hour.	Kind and amount of cloud, state of weather, direction of wind and any noteworthy weather phenomena.
At 2 minutes after the hour	Thermograph standard thermometer, dry-bulb.
	Thermograph standard thermometer, wet-bulb.
At 3 ,, ,, ,,	Newman's rain-gauge.
From 7 to 9 ,, ,,	Fortin barometer Calderara No. 2880 and attached thermometer.
	Newman's standard barometer No. 48 and attached thermometer (read at 8 hrs. only).
At 10 ,, ,, ,,	Thermometer attached to barograph (read at 8 hrs. only).

Observations of the kind and amount of cloud, state of weather, special phenomena and rainfall (in wet season) were also taken at 6, 10 and 22 hrs. Observations with nephoscope were taken at 8½, 12½ and 16½ hrs. every day. The maximum and minimum thermometers in the Stevenson Screen were read daily at 8 hrs. only.

During the monsoon months, Newman's rain-gauge was read daily at midnight in addition to the usual observations and the discharges of the syphon of the self-registering pluviograph were also read as often as required.

A Campbell-Stokes Sunshine recorder was installed on the balloon observation tower and was brought into regular use from August 1925. The sun-shine data given in the volume refer to *local apparent time.*

Observations of magnetic declination were made once every month at Colaba about the middle of the month. The mean of the differences between the absolute values of declination at Colaba and Alibag, observed during 1937 was 51′·3 as against 53′·5 obtained from the comparative observations taken at the two stations in the years 1904 and 1905.

Time-supply service.

The electric clock at the Colaba Observatory controlling the drop of the time ball was regulated once every day by comparison with the standard sidereal clocks, two Rieflers and one Kullberg. The time ball was dropped exactly at 8-30 A.M. I. S. T. on all the days throughout the year except Sundays. Government chronometers belonging to the Royal Indian Navy, were wound daily or twice a week as required and comparisons with the standard clock were made with sufficient frequency to render the instruments always ready for use at call with well-determined rates.

Magnetic Instruments at Alibag.

Variation Instruments.

The horizontal force, vertical force and declination magnetographs in use at Alibag are all by Watson and are mounted on isolated pillars in the magnetograph room. They were maintained in continuous action throughout the year. As explained on pages 1-2 of the Observatory volume for 1927, the sensitiveness of the vertical force magnetograph was increased eight-fold on the 7th August 1927 by introducing certain alterations in the mechanism for adjusting the position of the centre of gravity of the 'balance'. The V. F. magnetograph showed frequent changes of zero and it became necessary to adjust it on 7 occasions during the year. The H. F. Magnetograph was adjusted on 16th October.

The locally constructed declination magnetograph, which was in action since 1931, was stopped on 1st July 1937. A La Cour declination magnetograph with high magnification (1 cm.=2′·25) was installed on an isolated pillar in the magnetograph room in May 1936 and continuous records from this were obtained from March 1937. The records furnished by this instrument are identical with those obtained with the Watson declination magnetograph except that the variations are shown in a more conspicuous manner.

The highest maximum and lowest minimum temperatures in each month in the magnetograph room during 1937 are shown below in degrees Fahrenheit.

1937.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Maximum .	84·6	83·4	85·6	89·1	91·3	92·2	88·4	86·4	87·4	88·5	88·5	87·3	92·2
Minimum .	82·3	82·3	83·4	85·5	88·9	88·1	85·1	84·8	86·0	87·3	87·2	84·3	82·3

A Kew Horizontal Force Magnetometer, a Kew Vertical Force Magnetometer and a Declination Magnetometer are installed in the ground-floor room of the magnetometer building as auxiliary eye-reading instruments. The eye observations of the H and V magnetometers were regularly plotted and were used mainly for a comparative study of the performance of the different instruments. The hourly tabulations from the magnetograms represent the average values during one hour, centred at the full hours of Greenwich Mean Time.

The scale coefficients of the force magnetographs were obtained every fortnight from deflection observations performed on the instruments with deflectors, at distances of 100 cm. and 120 cm. in the case of H and at distances of 126·7 cm. and 151·3 cm. in the case of V magnetograph. The usual distribution coefficient $(1+\frac{P}{r^3})$ was introduced in the formula for the computation of scale coefficients. It was found that the mean values of the factor in the case of H. magnetograph were for both the distances equal to unity and in the case of V. magnetograph 1·11 and 1·07 for the shorter and the longer distances respectively. The value of the scale coefficient adopted for any month is the average of the mean observed value for that month and those for the preceding and succeeding months.

The following table gives the scale coefficients of the force magnetographs, that is the values in γ, corresponding to 1 cm. ordinate on the photographic paper, where as usual γ =0·00001 C. G. S. unit of force.

Instrument.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
H. F. Magnetograph	45·0	45·1	45·0	44·8	44·5	44·7	44·9	45·0	44·8	44·5	44·3	44·2
V. F. Magnetograph	36·7	36·7	15·6	14·9	14·9	14·9	17·3	17·3	15·3	15·3	15·3	15·3

The scale coefficient of the Watson declination magnetograph for 1 cm. of ordinate is 10′·28, and that for the La Cour Declinograph is 2′·25.

The temperature coefficient of the horizontal force magnetograph was determined by Dr. Moos by heating experiments and its adopted value is 3·6 γ/°F. The temperature coefficient of the vertical force magnetograph was found by similar experiments to be negligible as no appreciable change in force, after allowing for the actual diurnal change, could be definitely ascertained as being due to temperature effect. The above conclusions were checked by Dr. Banerji by an analysis of the observed monthly values of base lines† by means of the formula $B_t = B_m + \alpha (t-m)$, where B_t is the monthly mean value of the base line, uncorrected for temperature but corrected for the slow secular change caused by the loss of magnetic moment and other causes, 't' the mean temperature during the month, B_m the annual mean of the observed values of the base line, m the annual mean temperature of the magnetograph room, and α the temperature coefficient. Several years' data have been analysed in this manner. The mean value of α for H. F. based on the date for the years 1922-31 is 5·3 γ/°F. The data for the years 1930-36 were analysed and the mean value of α was found to be 5·7γ/°F. This has been adopted from January 1937. For V. F. the value of α appears to be negligible.

Absolute Instruments.

Two magnetometers have been in regular use during the period for determining the absolute values of horizontal force and declination. Magnetometer No. 7 by Messrs. T. Cooke and Sons, which is the standard instrument at Alibag, is of the ordinary Kew pattern but is modified and improved in several details. The other instrument is Magnetometer No. 137 by Dover Charlton and is of the usual Kew pattern. Instrument No. 7 is observed on the second floor of the magnetometer building, while instrument No. 137 with its own magnets is observed on the first floor. A pair of new magnets for No. 7 with their constants determined at the Greenwich Magnetic Observatory (Abinger) was received from Messrs. Cooke, Troughton and Sims in 1929 and observations of Horizontal Force and Declination were taken once every four weeks with these magnets and magnetometer No. 7 on the second floor throughout the year for comparative purposes. The results show close agreement with those obtained with the old magnets No. 7.

The value of the correction, $\text{Log}_{\cdot 10}(1+\frac{P}{r^3}+\frac{Q}{r^4})^{-1}$ used in the reduction of the horizontal force observations was obtained for a given month by taking the mean for seven months including the given month as fourth of the seven. The values of this correction

†Memoirs of the India Meteorological Department, Vol. XXV, Part VII.

for the different months of the year for the standard instrument at the deflection distance 22·5 cm. were as follows :—

January	.. 9·99273	May	.. 9·99273	September	.. 9·99290
February	.. 9·99274	June	.. 9·99277	October	.. 9·99294
March	.. 9·99273	July	.. 9·99276	November	.. 9·99307
April	.. 9·99273	August	.. 9·99288	December	.. 9·99310

Earth Inductor No. 41 by Schulze of Potsdam and galvanometer No. 200 by Plath are installed on specially constructed pillars in the second floor, while Inductor No. 108 by Otto Toepfer and its galvanometer are installed in the first floor of the magnetometer building. Both these instruments were in regular use.

System of observation at Alibag.

Eye observations of the instruments mentioned below were taken daily, Sundays included, shortly before 6, 10, 14, 16 and 22 hrs. (Local Time) at the instants specified against them. These instants have been chosen so that they may approach as nearly as possible to the full hour of Greenwich Mean Time, which corresponds to 51 mins. of local time.

At 19 minutes to the hour	. Kew Horizontal Force Magnetometer and attached thermometer.
„ 17 „ „ „	. Kew Vertical Force Magnetometer and attached thermometer.
„ 15 „ „ „	. Declination Magnetometer.
„ 10 „ „ „	. Watson's Vertical Force Magnetograph and attached thermometer.
„ 8 „ „ „	. Watson's Horizontal Force Magnetograph and attached thermometer.
„ 6 „ „ „	. Thermograph and the standard thermometer in the Magnetograph room (read twice daily at 6 and 16 hrs. only).

Observations of absolute horizontal force were made with the Observatory standard instrument No. 7 and magnets No. 7 (old) on Wednesdays. Observations of absolute horizontal force were also taken with—

(1) magnetometer No. 137 and magnets No. 137 on Mondays once every four weeks,

(2) the standard magnetometer No. 7 and magnets No. 7 (new) on Fridays once in four weeks.

Observations of absolute declination were made with the standard magnetometer No. 7 and magnet No. 7 (old) on Thursdays. Observations of declination were also taken for comparative study with—

(1) magnetometer No. 137 and magnets No. 137 on Thursdays once in eight weeks,

(2) standard magnetometer No. 7 and magnet No. 7 (new) on Thursdays once in four weeks.

Observations of inclination were made with the Schulze's Inductor, which is the Observatory standard instrument, and another inductor by Otto Toepfer every day in the year with the exception of Sundays and holidays. Each of the two inductor instruments was ordinarily observed on alternate days, but for check both the instruments were observed on the same day one after the other on Saturdays.

Transit observations of stars for the determination of time were made generally on Tuesdays and Fridays in the dry months ; during the monsoon months no opportunity was lost of observing the sun or stars whenever visible. The adjustment of the transit instrument was frequently tested by reference to the fixed collimator mark and by level observations ; the errors of collimation, level and azimuth were determined once every month except during the monsoon months. A complete set of observations of all the meteorological elements was taken at Alibag at 8 hrs. (local time) throughout the year.

General Review.

1. *Weather.*—The southwest monsoon rains commenced at Bombay on the 12th June and ended on the 5th October. The total rainfall recorded during the year amounted to 70·72″ and was 0·18″ above the normal of 72 years. The mean temperature of the year was 79°·7 which was 0°·4 above the normal. The greatest maximum temperature recorded was 92°·5 on the 11th June and the lowest minimum was 62°·7 on the 6th January. The mean temperature of all the months in the year was within 1° of the normal of the season. The mean velocity of wind during the year was 7·8 miles per hour. The greatest daily mean velocity was 19·4 miles per hour on the 14th June and the lowest was 3·5 miles per hour on the 1st October. The greatest mean hourly velocity was 34 miles on the 13th June and the maximum velocity of a single gust of wind as recorded by the Dines' anemograph reached 53 miles per hour on the 12th June.

2. *Magnetic conditions.*—The mean and the extreme values of the magnetic elements at Alibag during 1937 are given below along with the corresponding values for the previous ten years :—

Year.	H						D						V						I
	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum		Absolute annual range.	Mean.
		Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.		
	γ	γ		γ		γ	′	′		′		′	γ	γ		γ		γ	′
1927	37119	37350	22nd Oct.	36802	12th Oct.	548	1·9 W.	6·0 E.	22nd July.	8·6 W.	21st Aug.	14·6	17650	17710	24th Sept.	17585	14th Sept.	145	25 25·9
1928	37152	37463	7th July.	36718	8th July.	745	3·8 W.	11·6 E.	8th July.	9·0 W.	19th Sept.	20·6	17698	17778	28th May.	17608	30th April.	170	25 28·3
1929	37209	37316	11th Aug.	36988	12th Mar.	328	5·9 W.	0·5 W.	16th Apr.	11·1 W.	5th Sept.	10·6	17736	17797	24th Nov.	17655	29th Jan.	142	25 29·1
1930	37253	37373	14th Oct.	37021	16th June.	352	8·0 W.	2·6 W.	31st May.	12·7 W.	25th Aug.	10·1	17777	17836	6th Oct	17692	12th Jan.	144	25 30·6
1931	37323	37417	17th Oct.	37097	29th Oct.	320	10·5 W.	5·7 W.	15th Apr.	15·8 W.	30th June.	10·1	17806	17869	11th Nov.	17726	20th May.	143	25 30·3
1932	37364	37460	25th Nov.	37223	30th May.	237	12·7 W.	7·0 W.	30th May.	18·1 W.	23rd July.	11·1	17830	17895	5th Nov.	17756	29th April.	139	25 30·6
1933	37408	37486	18th Nov.	37206	1st May	280	14·5 W.	10·3 W.	1st May	18·8 W.	27th July	8·5	17848	17913	16th Dec	17759	18th May	154	25 30·4
1934	37462	37564	7th Nov.	37314	16th Feb.	250	16·2 W.	12·1 W.	11th May	21·3 W.	9th Sept.	9·2	17867	17914	4th Dec.	17793	25th July	121	25 29·9
1935	37524	37651	11th Sept.	37394	24th Oct.	257	17·7 W.	12·3 W.	6th April.	23·4 W.	15th Sept.	11·1	17892	17957	23rd Aug.	17804	21st Aug.	153	25 29·5
1936	37593	37710	21st Sept.	37407	19th June	303	19·9 W.	13·7 W.	19th June	26·4 W.	2nd Oct.	12·7	17902	17978	24th Oct.	17786	27th May.	192	25 27·8
1937	37652	37801	10th June.	37406	28th Apr.	395	21·8 W.	15·2 W.	26th Apr	28·3 W.	22nd Aug.	13·1	17906	17969	26th Apr.	17813	31st Jan	156	25 26·1

The value of H has been steadily increasing since 1916. The increase from 1936 to 1937 is 59γ and is greater than the average rate of increase, namely 53γ, during the last 10 years. The Westerly Declination increased during the year by 1·9′ which is nearly at the same rate as during the last ten years. The vertical force continued to show a gradual increase, but the inclination which has been slowly decreasing since the year 1933 showed a further decrease of 1′·7.

The following table gives the character figure assigned to each day according to the method adopted by Colaba. The classification which is in eight grades is convertible to the present International classification 0, 1 and 2 according to the following scales :—

C, Ca } =0 S, Sa } =1 M, Ma, G, VG } =2

Date.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Septr.	Octr.	Novr.	Decr.
1	Ca	S	M	Ca	S	Ca	S	S	S	Sa	C	Sa
2	S	S	Sa	M	C	Ca	Ca	M	Ca	C	S	Ca
3	Ca	Ma	C	S	Ca	Ca	Ca	M	Ca	Sa	Ca	Ca
4	Ca	S	S	Ca	Sa	Sa	Ca	S	S	M	C	Ca
5	Ca	S	G	C	M	Sa	S	Ca	S	S	Ca	Ca
6	S	S	S	S	C	M	Sa	Ca	Ca	S	C	S
7	Ma	S	Ca	S	Ca	S	S	Ca	Ca	G	S	S
8	S	Ca	C	Ca	C	S	C	C	Ca	Sa	S	S
9	M	M	Ca	C	S	Ca	S	C	Ca	VG	Sa	S
10	S	Sa	Ca	Ca	S	M	S	C	S	M	S	S
11	S	S	Ca	S	S	Ca	S	Ca	Sa	Ma	S	S
12	S	S	C	M	Ca	Ca	S	C	C	M	S	Ca
13	S	S	S	S	S	Sa	Ca	Ca	S	S	S	Ca
14	Ca	S	Sa	C	S	S	M	Ca	S	S	Ca	Ca
15	Ca	S	Ma	Ca	S	S	Ca	Ca	Ca	Sa	Ca	S
16	Ca	S	S	Ca	S	Ca	Ca	C	S	S	C	C
17	Ca	S	S	Ca	C	S	S	Ca	S	Ca	Ca	Ca
18	S	S	Ca	S	Ca	Ca	S	Ca	S	Ca	M	G
19	Ca	M	Ca	S	Ca	Ca	M	Ca	Ca	Ca	M	Sa
20	S	Sa	Ca	Ca	C	S	Sa	Ca	Ca	Ca	Sa	S

Date.	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Septr.	Octr.	Novr.	Decr.
21	S	Sa	S	S	Ca	S	S	Ca	Ca	S	S	C
22	Ca	S	M	Ca	Ca	S	Sa	G	S	S	Sa	S
23	S	Ca	S	Ca	Ca	Ca	S	S	Ca	Sa	S	G
24	Ca	Ca	Ca	Ma	Ca	S	S	Ca	S	Sa	Sa	S
25	C	S	S	G	S	S	S	Ca	Ca	Sa	Ca	S
26	S	Ca	S	G	S	C	S	S	Ca	Sa	Ca	S
27	M	Ca	M	M	Sa	Sa	Ca	S	Ca	Sa	Ca	Ca
28	S	S	S	G	Sa	S	C	Ca	Ca	S	S	Ca
29	Ca		Ca	S	Sa	Ca	C	Ca	Ca	Ca	M	C
30	S		Ca	S	Ca	Ca	S	C	G	C	M	Ca
31	Ca		Ma		S		Ca	Ca		Ca		Sa
Mean character figure according to international scheme.	0·65	0·93	0·77	0·80	0·55	0·63	0·71	0·35	0·47	0·94	0·73	0·61

The annual mean character figure, as assigned by the Observatory, for the year 1937 is 0·68, while that assigned for the year 1936 is 0·43 and for 1935, 0·47. The corresponding De Bilt figures are 0·73, 0·70 and 0·70 respectively. October was the most active and August the least active month in the year.

Magnetic Storms.

In plates I, II, III, IV and V are reproduced the magnetic records on disturbed days which have been recommended for publication by the International Commission of Terrestrial Magnetism. The base-line values and scale co-efficients are shown with each curve. The hourly breaks last for 2 to 3 minutes and the time shown against a break is the time at the beginning of the break expressed in Greenwich Mean Time. Increasing ordinates for H. and V. curves mean increase in force, and for the declination curves decrease in *westerly* declination.

Absolute observations and Base-Line Values.

Declination.

Absolute observations of declination were made once a week on Thursdays with the standard magnetometer No. 7 and Magnets No. 7 (old). For comparative purposes, observations of declination were taken with the auxiliary magnetometer No. 137 and magnetometer No. 7 with No. 7 (new) magnets as already indicated.

Base-line values are derived by converting the ordinates corresponding to absolute observations with instrument No. 7 and magnet No. 7 (old) into angles and subtracting the converted ordinates from the observed absolute declination. The values so obtained of the base-lines of the declination magnetograph denote westerly declination.

The adopted values are derived by taking overlapping means of 5 successive observations and reducing them to the proper epoch, values for intermediate days being obtained by interpolation.

Declination base-line values, 1937.

(0° *plus tabular minutes.*)

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	′	′		′	′		′	′
January 7	68·4 W	68·4 W	May 6	68·1 W	68·3 W	September 2	67·2 W	67·0 W
,, 14	68·1	68·5	,, 13	68·8	68·2	,, 9	67·2	67·0
,, 21	68·1	68·2	,, 20	68·4	68·3	,, 16	67·1	67·2
,, 28	68·5	68·2	,, 27	67·8	68·3	,, 23	67·1	67·1
						,, 30	67·1	67·0
February 4	68·1	68·3	June 3	68·3	68·3	October 7	67·0	67·0
,, 11	68·3	68·7	,, 10	68·5	68·3	,, 15	66·9	67·0
,, 18	68·5	68·7	,, 17	68·5	68·5	,, 21	67·0	67·1
,, 25	69·9	68·8	,, 24	68·3	68·7	,, 28	67·1	67·1
March 4	68·6	68·9	July 1	68·9	68·7	November 3	67·5	67·3
,, 11	68·4	68·9	,, 8	69·0	68·7	,, 11	67·3	67·1
,, 18	69·0	68·8	,, 15	68·9	68·7	,, 18	67·6	67·3
,, 25	68·9	68·9	,, 22	68·5	68·2	,, 25	66·2	67·4
			,, 29	68·1	67·6			
April 1	69·0	69·1				December 2	68·0	67·3
,, 8	69·2	68·9	August 5	66·6	67·2	,, 9	67·7	67·2
,, 15	69·3	68·7	,, 12	66·1	66·8	,, 16	67·1	67·5
,, 22	68·1	68·5	,, 19	66·8	66·6	,, 23	67·1	67·3
,, 30	68·1	68·4	,, 26	66·5	66·7	,, 30	67·3	67·4

Horizontal Force.

Absolute observations of horizontal force were made every week, on Wednesdays with the standard magnetometer No. 7 and magnets No. 7 (old). Observations with the auxiliary magnetometer No. 137 and magnets No. 137 were taken every four weeks on Mondays and also with magnetometer No. 7 and magnets No. 7 (new) on Fridays once in four weeks as already indicated. A day's observations comprise a double set of vibration and deflection experiments at three distances which for No. 7 are 22·5 cm., 30 cm. and 40 cm. In calculating the base-line values the mean of the observed values at all the three distances has been used.

Base-line values are derived by converting the mean ordinates corresponding to absolute observations with instrument No. 7 in terms of γ and subtracting the converted ordinates from the mean observed absolute horizontal force. They are further reduced to a uniform temperature of 85°F to make the series comparable from month to month and year to year.

The adopted values are derived by taking overlapping means of 5 successive double sets of observations and reducing them to the proper epoch, values for intermediate days being obtained by interpolation.

Horizontal force base-line values at 85°F., 1937.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	γ	γ		γ	γ		γ	γ
January 6	37,284	37,286	May 5	37,296	37,291	September 1	37,281	37,283
„ 13	289	283	„ 11	291	291	„ 7	278	282
„ 20	276	279	„ 19	291	291	„ 15	287	281
„ 27	271	280	„ 26	289	291	„ 22	280	283
February 3	276	278	June 2	289	289	„ 29	278	284
„ 10	287	281	„ 8	297	286	October 6	292	286
„ 18	281	286	„ 16	278	286	„ 13	284	289
„ 24	293	287	„ 23	275	285	„ 20 *	417	411
March 3	291	287	„ 30	291	283	„ 27	419	409
„ 10	282	289	July 7	283	284	November 2	397	409
„ 17	289	291	„ 14	286	287	„ 10	405	406
„ 25	292	290	„ 21	287	284	„ 17	408	404
„ 31	301	292	„ 28	285	284	„ 24	400	404
						December 1	409	404
April 7	284	292	August 4	278	284	„ 8	399	401
„ 14	295	292	„ 11	283	283	„ 15	402	400
„ 21	288	291	„ 18	286	282	„ 22	396	397
„ 30	290	292	„ 25	283	282	„ 29	393	398

*H. F. Magnetograph was adjusted on the 16th October.

Vertical Force.

Inclination observations with inductors were made on every day in the year, with the exception of Sundays and holidays, each of the two instruments being observed on alternate days except on Saturdays when both were observed for comparative study.

Base-line values are derived by expressing the mean ordinates of V. F. magnetograms at the time of the inclination observations in terms of γ and subtracting these from the values of vertical force obtained by multiplying the value of H. F. at the time by the tangent of inclination given by inductor observations. Values derived from Inductor No. 108 are reduced to those derived from Inductor No. 41 (which is the Observatory standard) by applying the mean correction for the month which was deduced from the comparative observations taken on Saturdays of every week.

The adopted values were derived by taking overlapping means of 7 successive observations and reducing them to the proper epoch; values for other days were obtained by interpolation.

As already remarked the V. F. magnetograph showed frequent changes of zero and it became necessary to adjust it, on Feb. 14th, Mar. 6th, April 29th, June 26th, July 26th, Oct. 16th and Dec. 20th.

Vertical force base-line values, 1937.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	ϒ	ϒ		ϒ	ϒ		ϒ	ϒ
January 6 .	17,858	17,856	May 5 .	17,780	17,776	September 1 .	17,792	17,762
,, 13 .	863	865	,, 11 .	768	788	,, 7 .	750	755
,, 20 .	877	872	,, 19 .	783	786	,, 15 .	801	780
,, 27 .	925	926	,, 26 .	741	748	,, 22 .	778	779
						,, 29 .	795	785
February 3 .	939	942	June 2 .	780	758			
,, 10 .	909	911	,, 8 .	740	759	October 6 .	811	787
,, 18 .	916	897	,, 16 .	747	753	,, 13 .	731	716
,, 24 .	982	980	,, 23 .	792	794	,, 20 .	854	851
			,, 30 .	894	894	,, 27 .	873	866
March 3 .	916	959						
,, 10 .	831	830	July 7 .	895	912	November 2 .	875	865
,, 17 .	775	770	,, 14 .	917	925	,, 10 .	856	856
,, 25 .	784	767	,, 21 .	941	932	,, 17 .	916	886
,, 31 .	777	774	,, 28 .	827	833	,, 24 .	858	859
						December 1 .	843	843
April 7 .	716	731	August 4 .	796	800	,, 8 .	858	860
,, 14 .	732	743	,, 11 .	812	810	,, 15 .	931	913
,, 21 .	763	759	,, 18 .	793	789	,, 22 .	793	828
,, 28 .	716	714	,, 25 .	765	774	,, 29 .	847	846

Seismographs.

Two Milne-Shaw Seismographs (N-S and E-W components), were in continuous action in the underground constant temperature room, and both gave excellent records of earthquakes and microseisms during the year. The earthquakes recorded by these instruments will be found tabulated at the end of the volume. The magnification of the N-S instrument was 250 : 1 and that of the E-W instrument 350 : 1. The locally constructed seismographs of the Omori type (N-S and E-W components) were kept in continuous operation during the year as auxiliary instruments.

The total number of seismic disturbances recorded at Bombay during the year was 235 of which the distance could be determined in 83 cases; the epicentre is available in 95 cases. The number of earthquakes in India, Burma and their neighbourhood (the area lying between latitude 0° to 40° N. and longitude 60° E. to 110° E.) was 30; besides these there were 4 instances in which though the phases were not definite, the recorded movements could be identified as due to shocks recorded by voluntary observers in the area. The number of shocks designated as great was 5 in which the maximum earth-movements ranged between 127μ and >444μ. There were 3 cases in which the amplitudes reached values ranging between 116μ and 161μ. There were thus 8 instances in which the earth-movements at Bombay exceeded an amplitude of 0·1 mm. the highest value being >0·4 mm.

Atmospheric Electricity.

Systematic registration of atmospheric potential gradient was continued during the year. A photographic electrograph by the Cambridge Scientific Instrument Co., as described in the Journal of Scientific Instruments, Vol. V, May 1928, pages 145-152, was received in May 1930 and installed on the 13th June 1930 in the old Milne seismograph room.

It was removed to a specially constructed room in the open space near the sea coast on the 28th February 1931 and the radium collector was exposed through a hole in the western wall at a height of 168 cm. above ground and on undisturbed days at a distance of 40 cm. from the wall. The reduction factor required to convert the potential gradients recorded by the instrument to those that would be observed in an open plain was determined by taking a number of observations on the neighbouring sea coast with a long horizontal stretched wire at a height of about a meter from the ground, an ionium collector and a Wulf bifilar electrometer. The mean factor obtained was 2·00. All the values in this volume have been corrected by the new factor. In tables I, II and III are given the mean values of the potential gradients for one hour intervals centred at half hours of Bombay Mean Time. The means in Table I have been derived from all the positive readings. The daily means given in Table II are based on all the complete days using both positive and negative values while Table III gives values based on ten electrically quiet days in each month. This selection was made as nearly as possible from ten complete days in the months. In Table IV are given the electrical character figures and the duration of negative potential gradient on different days. In assigning these figures the same convention has been adopted as those followed by the Kew Observatory (please see The Observatories Year Book, 1935, p. 365). That is, figure 0 means that there was no negative potential, 1 means that the total duration of negative potential gradient was less than 3 hrs. and 2 that the duration of negative gradient was 3 hrs. or more.

S. R. SAVUR,
Director.

Colaba Observatory, Bombay
The 1st December 1938.

Meteorological Tables.

(Colaba Observatory.)

BAROMETRIC PRESSURE, 1937.

JANUARY.

Readings refer to exact hours of local mean time.

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours (B. M. T.).													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	29·951	29·937	29·919	29·901	29·897	29·907	29·929	29·953	29·975	29·995	29·997	29·973	29·936	29·902
2	·895	·883	·867	·857	·861	·860	·879	·911	·943	·967	·971	·961	·927	·892
3	·895	·888	·869	·853	·851	·855	·863	·893	·920	·941	·947	·927	·887	·859
4	·873	·865	·852	·845	·840	·853	·865	·888	·904	·917	·910	·896	·871	·852
5	·884	·882	·866	·864	·870	·875	·886	·916	·940	·952	·954	·936	·918	·884
6	·898	·889	·882	·858	·866	·881	·898	·931	·962	·984	·981	·964	·941	·904
7	·937	·920	·907	·898	·900	·908	·924	·950	·980	30·004	30·005	·988	·963	·933
8	·925	·907	·889	·877	·872	·880	·900	·927	·957	29·977	29·980	·968	·944	·916
9	·938	·928	·917	·912	·915	·920	·928	·949	·982	30·000	·997	·975	·947	·918
10	·890	·874	·861	·832	·844	·856	·878	·902	·929	29·944	·946	·930	·900	·876
11	·911	·901	·897	·875	·876	·878	·894	·935	·967	·991	·980	·966	·943	·902
12	·990	·981	·964	·951	·952	·961	·978	30·004	30·037	30·045	**30·051**	30·030	·999	·971
13	·981	·964	·949	·930	·926	·928	·938	29·955	29·981	29·997	29·995	29·976	·949	·918
14	·922	·910	·897	·884	·884	·893	·907	·933	·961	·983	·969	·954	·929	·907
15	·931	·941	·933	·920	·922	·931	·947	·986	30·005	30·032	30·038	30·014	·981	·961
16	·974	·966	·954	·940	·938	·942	·970	·978	·006	·028	·026	·005	·978	·953
17	·973	·955	·936	·922	·923	·927	·952	·980	29·999	·016	·017	·002	·971	·944
18	·952	·938	·938	·936	·944	·950	·970	·988	30·022	·026	·026	29·995	·955	·929
19	·972	·969	958	·942	·943	·952	·974	·988	·014	·029	·030	30·001	·967	·931
20	·941	·949	·944	·930	·915	·921	·945	·972	·014	·034	·038	·017	·988	·952
21	·970	·954	·939	·933	·940	·945	·961	·979	·009	·029	·032	·013	·978	·944
22	·950	·939	·927	·919	·916	·927	·949	·981	·002	·031	·034	·021	·987	·959
23	·978	·965	·954	·937	·929	·939	·956	·977	·004	·032	·033	·012	·981	·949
24	·946	·926	·917	·902	·891	·887	·908	·926	29·954	29·993	29·994	29·973	·944	·914
25	·948	·939	·922	·919	·914	·910	·924	·933	·959	·984	·992	·981	·953	·925
26	·929	·915	·903	·892	·890	·895	·918	·931	·957	·976	·985	·970	·941	·907
27	·917	·917	·894	·882	·896	·901	·930	·944	·969	·984	·992	·965	·932	·889
28	·919	·914	·903	·895	·901	·905	·928	·943	·971	·988	·987	·967	·949	·924
29	·937	·923	·909	·901	·897	·900	·916	·933	·955	·961	·965	·946	·924	·885
30	·918	·892	·876	·866	·878	·872	·899	·918	·937	·950	·950	·928	·901	·864
31	·889	·875	·865	·853	·860	·875	·900	·913	·935	·951	·967	·949	·925	·897
Mean .	29·933	29·923	29·910	29·898	29·898	29·904	29·923	29·946	29·973	29·992	**29·993**	29·974	29·945	29·915
Variation	+·006	—·004	—·017	—·029	—·029	—·023	—·004	+·019	+·046	+·065	**+·066**	+·047	+·018	—·012
Mean in millibars.	1013·65	1013·31	1012·88	1012·47	1012·47	1012·68	1013·31	1014·09	1015·01	1015·66	**1015·69**	1015·05	1014·06	1013·05
Variation in millibars.	+·20	—·14	—·57	—·98	—·98	—·77	—·14	+·64	+1·56	+2·21	**+2·24**	+1·60	+·61	—·40

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1	29·947	29·934	29·930	29·920	29·922	29·921	29·946	29·960	29·985	30·007	30·003	29·983	29·954	29·919
2	·985	·965	·952	·944	·944	·945	·978	30·012	30·029	·050	**·061**	30·036	30·003	·971
3	30·021	·997	·986	·972	·972	·977	·997	·020	·035	·040	·032	·006	29·983	·941
4	29·945	·925	·911	·892	·904	·905	·911	29·933	29·952	29·979	29·986	29·970	·941	·912
5	·940	·929	·913	·903	·907	·913	·933	·951	·978	·999	30·005	·989	·955	·935
6	·995	·982	·979	·973	·972	·977	·979	30·004	30·036	30·052	·054	30·037	30·004	·986
7	30·019	30·005	·995	·977	·973	·979	·993	·005	·033	·047	·043	·019	·003	·972
8	29·964	29·953	·956	·937	·938	·937	·947	29·951	29·971	29.988	29·985	29·978	29·960	·935
9	·907	·886	·886	·876	·871	·872	·903	·919	·936	·952	·961	·942	·922	·892
10	·885	·882	·888	·884	·891	·900	·924	·932	·949	·970	·971	·951	·929	·901
11	·907	·882	·864	·870	·879	·865	·874	·894	·914	·927	·949	·948	·923	·902
12	·915	·901	·888	·878	·884	·886	·904	·926	·964	·987	30·003	·990	·974	·955
13	·983	·965	·954	·948	·956	·964	·989	30·010	30·038	30·050	·053	30·028	30·000	·960
14	·956	·940	·935	·930	·934	·935	·946	29·963	29·985	·003	·004	29·983	29·947	·918
15	·888	·871	·860	·848	·849	·851	·876	·887	·910	29·929	29·933	·913	·880	·842
16	·876	·857	·848	·839	·835	·842	·853	·869	·894	·909	·920	·913	·899	·881
17	·899	·881	·877	·872	·881	·885	·924	·938	·963	·973	·984	·968	·948	·918
18	·948	·940	·924	·921	·919	·919	·926	·934	·970	·983	·989	·968	·933	·904
19	·909	·887	·866	·843	·860	·871	·885	·895	·920	·935	·944	·919	·881	·839
20	·877	·864	·865	·862	·864	·869	·880	·899	·920	·942	·956	·940	·914	·895
21	·880	·864	·857	·849	·849	·855	·879	·895	·927	·938	·945	·932	·908	·876
22	·849	·825	·805	·796	·789	·797	·827	·864	·890	·908	·924	·922	·899	·862
23	·817	·814	·811	·811	·821	·831	·845	·864	·877	·898	·903	·885	·858	·823
24	·885	·862	·850	·845	·856	·859	·872	·891	·917	·923	·930	·910	·883	·855
25	·896	·888	·877	·860	·856	·861	·878	·898	·919	·926	·929	·908	·878	·842
26	·843	·837	·814	·796	·795	·797	·824	·836	·860	·876	·881	·875	·844	·812
27	·824	·815	·801	·795	·796	·806	·836	·858	·894	·907	·910	·897	·876	·855
28	·852	·837	·829	·824	·831	·838	·862	·895	·915	·918	·914	·900	·861	·835
Mean .	29·915	29·900	29·890	29·881	29·884	29·888	29·907	29·925	29·949	29·965	**29·970**	29·954	29·927	29·898
Variation.	+·009	—·006	—·016	—·025	—·022	—·018	+·001	+·019	+·043	+·059	**+·064**	+·048	+·021	—·008
Mean in millibars.	1013·05	1012·54	1012·20	1011·89	1012·00	1012·13	1012·78	1013·38	1014·19	1014·74	**1014·91**	1014·37	1013·45	1012·47
Variation in millibars.	+·31	—·20	—·54	—·85	—·74	—·61	+·04	+·64	+1·45	+2·00	**+2·17**	+1·63	+·71	—·27

JANUARY. Readings refer to exact hours of local mean time.

(IN INCHES OF MERCURY AT 32° F.)

Hours (B. M. T.).										Mean in		Maximum.		Minimum.		Date.
14	15	16	17	18	19	20	21	22	23	Inches.	Millibars	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·874	29·861	29·859	29·870	29·882	29·902	29·927	29·939	29·933	29·918	29·922	1013 28	9 30	29·997	15 35	29·859	1
·871	·850	·841	·847	·859	·884	898	·909	·911	·912	·894	12·34	9 50	·973	16 25	·840	2
·837	·813	**·805**	·805	·821	·841	·856	·867	·877	·879	·869	11·48	9 25	·951	15 50	**·803**	3
·828	·817	·824	·823	·835	·856	·878	·891	·898	·893	**·866**	**11·38**	8 40	·924	15 00	·817	4
·862	·855	·852	·859	·869	·880	·894	·913	·910	·901	·893	12·30	9 10	·956	15 25	·848	5
·884	·866	·864	.866	·879	·896	·922	·938	·947	·939	·910	12·88	9 10	·986	3 0	·858	6
·912	·900	·894	·894	·900	·911	·936	·942	·940	·934	·933	13·65	10 0	30·006	2 43	·892	7
·900	·892	·891	·900	907	·929	·946	·952	·953	·948	.922	13·28	9 18	29·986	4 6	·870	8
·889	·877	·871	·873	·878	·890	·907	·911	·914	·904	·923	13·31	9 0	30·000	15 55	868	9
·851	·834	·836	·836	·846	·872	·896	·907	·916	·913	·882	11·93	9 45	29 948	15 30	·830	10
·881	·877	·877	·887	·901	·928	·961	·985	·989	·989	·925	13·38	22 30	·995	3 20	·869	11
·941	·935	·935	·937	·942	·962	·977	·995	·993	·984	**·980**	**15·25**	10 0	**30·051**	16 12	·931	12
·898	·887	·880	·884	·893	·904	·927	·938	·939	·935	·936	13·75	9 5	29·998	15 55	·879	13
·884	·874	·874	·881	·889	·910	·933	·937	·945	·943	·917	13·12	9 15	·985	15 45	865	14
·947	·937	·937	·950	·953	·961	·970	·981	991	·978	·964	14·71	9 43	30·041	3 15	·919	15
·934	·930	·930	·941	961	·969	·988	·993	·995	·985	970	14·91	9 5	·033	16 5	·927	16
·917	·913	·919	·931	·952	·958	·983	·984	·984	·970	·959	14·53	10 2	·018	14 50	·912	17
910	·906	·914	·918	·933	·952	·979	·990	·984	·976	·960	14·57	9 30	.031	14 50	·906	18
·897	·885	891	·908	·932	·941	·955	·967	·972	·952	·957	14·47	8 50	·031	15 42	·883	19
·938	·932	·931	·942	·965	·980	30·002	30·009	·998	·993	·969	14·87	9 10	·039	4 25	·914	20
·902	·881	·881	·890	·902	·925	29·952	29·972	·973	·962	·953	14·33	9 23	·033	15 23	·875	21
·934	·921	·917	·923	·932	·945	·985	·994	·998	·989	962	14·64	9 25	·041	3 36	·915	22
·922	·910	·914	910	·916	927	·944	·955	961	·950	·956	14 42	9 15	037	14 47	·909	23
·895	·876	·869	·879	·900	·923	·949	·963	·963	·960	·927	13·45	9 40	29·997	15 35	·867	24
·897	·873	·875	·876	·889	914	·940	·940	·940	·931	·928	13·48	9 40	·996	16 10	.870	25
·885	·862	·862	·866	·876	·892	·912	·917	·916	·920	913	12·98	9 35	·988	15 30	·856	26
·863	·854	·850	·856	·878	·891	·919	·941	·942	·934	·914	13·02	9 50	·993	15 55	·847	27
·908	·904	·892	·893	·909	929	·937	·945	·958	·945	·930	13·55	8 55	.991	15 42	·891	28
·881	·864	·867	·863	·871	·893	·912	·911	·915	·919	·910	12·88	9 42	·969	15 15	·861	29
·851	·837	·837	·841	·859	·872	·896	·900	·904	·900	·889	12·16	9 40	·956	15 12	·834	30
·884	·871	·872	·879	·903	·922	·943	·955	·952	·942	·907	12·78	9 52	·971	3 0	·851	31
29·893	29·880	29·879	29·885	29·898	29·915	29·936	29·946	29·949	29·942	29·927	1013·45					Mean.
—·034	—·047	—·048	—·042	—·029	—·012	+·009	+·019	+·022	+·015							Variation.
1012·30	1011·86	1011·82	1012·03	1012·47	1013·05	1013·75	1014·09	1014·19	1013·96							Mean in millibars.
—1·15	—1·59	—1·63	—1·42	—·98	—·40	+·30	+·64	+·74	+·51							Variation in millibars.

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29·896	29·875	29·888	29·898	29·917	29 943	29·972	29·983	29·991	29·985	29·945	1014·06	9 10	29·011	15 0	29·875	1
·958	·943	·951	·954	·974	·998	30·027	30·033	30·034	30·025	·991	1015·62	10 0	**·063**	4 31	·937	2
·926	·913	·908	·920	·927	·946	29·961	29·972	29·970	29·957	·974	1015·05	9 10	·042	15 18	·906	3
·887	·869	·876	·883	·896	·910	·939	·942	·941	·939	·923	1013·31	9 15	29·987	15 6	·865	4
·915	·902	·915	·931	·953	·975	992	30·005	30·002	30·002	·952	1014·30	8 35	30·007	2 51	·897	5
·962	·944	·947	·952	·960	·981	30·008	·021	·024	·019	**·994**	**1015·73**	10 0	·054	14 45	·942	6
·949	·926	·927	·921	·935	·960	29·983	29·990	29·990	29·976	·984	1015·39	9 17	·049	15 30	·921	7
·898	·871	·875	·880	·894	·922	·931	·933	·927	·920	·935	1013·72	9 35	29·991	15 15	·867	8
·867	·851	·850	·851	·855	·866	·880	·888	·889	·886	·892	1012·27	9 52	·964	14 43	·846	9
·877	·860	·863	·866	·882	·902	·937	·943	·944	·919	·910	012·88	9 35	·972	15 30	·852	10
·882	·871	·876	·879	·896	·902	·925	·931	·937	·924	·901	1012·57	10 5	·954	1 55	·862	11
·934	·914	·920	·934	·950	·957	·989	·994	·997	·991	·943	1013·99	10 2	30·005	3 0	·877	12
·939	·920	·924	·921	·935	·946	·966	·972	·978	·966	·974	1015·05	9 25	·055	15 6	·917	13
·900	·880	·877	·871	·878	·887	903	·909	·912	·900	·929	1013·51	9 17	011	15 35	·871	14
·813	·792	·795	·810	·824	·849	·866	·876	·889	882	·864	1011·32	9 40	29·934	15 35	·788	15
·856	·841	·843	·842	·866	·883	·914	·919	·914	909	·876	1011·72	9 46	·925	3 43	·835	16
·901	·891	·898	·899	·911	·932	·951	·954	·958	·958	·923	1013·31	9 25	·985	3 5	·867	17
·882	·851	·859	·863	·873	890	·908	·914	·927	·914	·919	1013·18	9 35	·990	15 17	·850	18
·807	·781	·798	·799	·816	·826	·861	·880	·883	·879	·866	1011·38	9 40	.949	15 6	·779	19
·867	·850	·841	·834	·844	·848	·869	·873	·892	·884	·881	1011·89	9 43	·958	16 20	·832	20
·857	·833	·828	·829	·835	·850	·873	874	·871	·863	·874	1011·66	9 22	·949	15 30	827	21
·832	·822	·808	·809	·816	·823	·840	·840	·841	·832	·843	1010·61	10 6	·927	3 30	·773	22
·791	·778	·783	·790	·811	·830	·857	·871	·882	·886	·839	1010·47	9 22	·908	15 17	·772	* 23
·825	·809	·806	·816	·822	·831	·858	·876	·891	·893	·865	1011·25	9 25	·933	16 16	·801	24
·817	·796	·782	·783	·786	·798	·835	·845	·847	·847	856	1011·04	9 25	·934	16 20	·776	25
·791	776	·787	·793	·797	·806	·820	·830	·832	·826	**·823**	**1009·93**	9 35	·882	14 43	·774	26
·827	·817	·814	·822	·828	·837	·851	·858	·860	·852	·843	1010 61	10 10	·912	2 43	·794	27
·811	·793	·783	·780	·792	800	·822	·830	·832	·823	·841	1010·54	9 15	·928	16 40	·776	28
																29
29·874	29·856	29·858	29·862	29·874	29·889	29·912	29·920	29·923	29·916	29·906	1012·74					Mean.
—·032	—·050	—·048	—·044	—·032	—·017	+·006	+·014	+·017	+·010							Variation.
1011·66	1011·04	1011·11	1011·25	1011·66	1012·16	1012·95	1013·21	1013·31	1013·08							Mean in millibars.
—1·08	—1·70 e	—1·63	—1·49	—1·08	—·58	+·21	+·47	+·57	+·34							Variation in millibars.

BAROMETRIC PRESSURE, 1937.

MARCH.

Readings refer to exact hours of local mean time.

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours (B. M. T.)													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	29·818	29·800	29·792	29·786	29·785	29·800	29·820	29·838	29·863	29·871	29·876	29·858	29·827	29·797
2	·798	·792	·786	·786	·783	·784	·807	·830	·850	·862	·864	·849	·816	·782
3	·803	·787	·777	·770	·768	770	·794	·820	·845	·861	·870	·835	803	·761
4	·797	·779	·776	·770	·779	·788	·808	·831	·847	·861	·865	·847	·814	·795
5	·806	·797	·788	·786	·791	·802	·834	·842	·861	·874	·875	·863	·830	·791
6	·830	·812	·807	·800	·801	·807	·839	·856	·888	·893	·898	·879	·851	·813
7	·830	·821	·807	·795	·798	·804	·828	·841	·858	·875	·881	·865	·847	·835
8	·879	·858	·849	·829	·823	·844	·874	·904	·935	·963	·978	·957	·929	·892
9	·873	·855	·841	·828	·825	·840	·858	·877	·901	·914	·919	·902	·873	·841
10	·841	·817	·809	·792	·795	·799	·823	·847	·865	·873	·880	·866	·837	·815
11	·841	·824	·807	·879	·794	·794	·824	·849	·864	·873	·878	·861	·843	·820
12	·855	·846	·837	·834	.833	·836	·856	·876	·892	·902	·907	·891	·870	·844
13	·840	·820	·816	·806	·804	·805	·822	·847	·864	·886	·888	·876	·843	·812
14	·836	·828	·812	·806	·806	·816	·819	·852	·884	·882	·885	·880	·855	·837
15	·870	·848	·832	·742	·843	·856	·864	·870	·891	·906	·905	·897	·871	·841
16	·863	·849	·839	·825	·826	·829	·850	·860	·882	·897	·915	·902	·879	·852
17	·839	·827	·817	·807	·803	·803	·815	·837	·859	·871	·878	·855	·830	·794
18	·795	·781	·768	·758	·767	·773	·809	·833	·851	·862	·866	·854	·830	·806
19	·830	·817	814	·809	·820	·823	·847	·868	·896	·906	·910	·890	·862	·832
20	·855	·838	·832	·830	·834	·840	·856	·870	·895	·904	·910	·889	·859	·818
21	·838	·827	·820	·804	·802	·808	·830	·860	.879	.897	·897	·886	·856	·812
22	·838	·821	·807	·803	·803	·812	·832	·857	·892	·907	·908	·889	·855	·829
23	·858	·842	·831	·826	·833	·839	·877	·911	·931	·940	·937	·915	·879	·861
24	·876	·862	·843	·835	·846	·843	·856	·871	·896	·899	·893	·881	·854	·821
25	·838	·819	·791	·784	·790	·797	·812	·827	·850	·871	·876	·866	·845	·819
26	·808	·807	·794	·787	·790	·793	·809	·824	·843	·856	·859	·847	·831	·801
27	·799	·779	·771	·750	·746	·756	·775	·787	·833	·855	·859	·853	·825	·805
28	·853	·838	·833	·825	·819	·814	·814	·829	·868	·874	·889	·875	·850	·819
29	·863	·837	·821	·819	·811	·815	·849	·869	·871	·887	·881	·871	·847	825
30	·759	·739	·735	·714	·709	·724	·739	·766	·786	·803	·797	·800	·775	·754
31	·757	·753	·722	·720	·712	·715	·727	·750	·798	·809	·798	·776	·761	·744
Mean	29·832	29·817	29·806	29·797	29·798	29·804	29·825	29·845	29·869	29 882	29·885	29·870	29·843	29·815
Variation	+·014	—·001	—·012	—·021	—·020	—·014	+·007	+·027	+·051	+·064	+·067	+·052	+·025	—·003
Mean in millibars.	1010·24	1009·73	1009·35	1009·05	1009·08	1009·29	1010·00	1010·68	1011·48	1011·93	1012·03	1011·52	1010·61	1009·66
Variation in millibars.	+·48	—·03	—·41	—·71	—·68	—·47	+·24	+·92	+1·72	+2·17	+2·27	+1·76	+·85	—·10

APRIL.

1	29·773	29·765	29·749	29·729	29·748	29·753	29·768	29·794	29·823	29·845	29·857	29·831	29·808	29·795
2	·790	·778	·764	·777	·789	·804	·842	·856	·868	·884	·892	·876	·846	·830
3	·843	·828	·830	·819	·822	·824	·832	·853	·869	·876	·876	·865	·836	·810
4	·802	·798	·782	·782	·775	·787	·800	·817	·850	·852	·842	·834	·806	·783
5	·838	·826	·811	·808	.805	·811	·829	·844	·869	·880	·881	·855	·824	·789
6	·799	·791	·781	·783	.784	·794	·818	·842	·872	·885	·881	·861	·833	·814
7	·812	·802	·796	·789	·792	·805	·826	·848	·875	·885	·877	·866	·841	·812
8	·839	·826	·813	·807	·810	·817	·831	·847	·852	·866	·860	·845	·820	·790
9	·802	·797	·791	·779	·783	·791	·808	·826	·848	·860	·858	·852	·831	·799
10	·800	·785	·779	·762	·757	·766	·785	·817	·840	·849	·852	·848	·826	·799
11	·845	·816	·820	·803	·812	·825	·831	·849	·879	·902	·900	·896	·889	·860
12	·857	·842	·817	·812	·801	·812	·825	·851	·872	·881	·881	·863	·847	·807
13	·808	·793	·783	·762	·759	·770	·793	·811	·827	·834	·830	·810	·780	·742
14	·745	·723	·711	·686	·704	·718	·739	·779	·808	·829	·831	·828	·817	·793
15	·810	·798	·795	·788	·772	·787	·805	·822	·836	·855	·840	835	·820	·799
16	·781	·767	·757	·752	·746	·757	·774	·796	·814	·822	·813	·793	·770	·745
17	·736	·732	·724	·716	·723	·744	·746	·764	·781	·778	·778	·765	·741	·721
18	·718	·705	·714	·700	·664	·693	·714	·734	·746	·764	·768	·746	·721	·679
19	·688	·662	·638	·612	·616	·652	·672	·694	·710	·720	·718	·706	·684	·652
20	·702	·688	·677	·666	·671	·695	·718	·744	·766	·776	·780	·772	·753	·729
21	·781	·759	·740	·731	·730	·751	·775	·792	·827	·832	·834	·814	·800	·777
22	·755	·742	·727	·722	·725	734	·754	.773	·796	·806	·805	·798	·786	·759
23	·807	·804	·794	·770	·754	·753	·768	·794	·820	·828	·830	·822	·809	·780
24	·784	·785	·779	·784	·786	·798	·808	·823	·836	·841	·840	·833	·816	·793
25	·776	·764	·755	·752	·760	·774	·789	·819	·831	·842	·836	·826	·818	·793
26	·769	·756	·743	·734	·745	·763	·780	·802	·826	·846	·847	·831	·805	·781
27	·754	·736	·722	·712	·718	·733	·764	·791	·802	·810	·810	·799	·782	·753
28	·740	·729	·714	·706	·714	·726	·740	·764	·780	·790	·791	·780	·752	·726
29	·752	·738	·724	·722	·718	·726	·746	·780	·799	·802	·801	·790	·770	·754
30	·761	·751	.737	·725	·740	·748	·765	·781	800	·812	·805	·798	·783	·762
Mean .	29·782	29·770	29·759	29·750	29·751	29·764	29·781	29·804	29·824	29·835	29·834	29·821	29·800	29·774
Variation.	+·010	—·002	—·013	—·022	—·021	—·008	+·009	+·032	+·052	+·063	+·062	+·049	+·028	+·002
Mean in millibars.	1008·54	1008·14	1007·76	1007·46	1007·49	1007·94	1008·50	1009·29	1009·97	1010·34	1010·31	1009·86	1009·15	1008·28
Variation in millibars.	+·33	—·07	—·45	—·75	—·72	—·27	+·29	+1·08	+1·76	+2·13	+2·10	+1·65	+·94	+·07

MARCH.

Readings refer to exact hours of local mean time.

(IN INCHES OF MERCURY AT 32° F.)

Hours. (B. M. T.).										Mean in.		Maximum.		Minimum.		Date.
14	15	16	17	18	19	20	21	22	23	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·757	29·743	29·739	29·741	29·754	29·765	29·785	29·797	29·805	29·796	29·801	1009·18	9 35	29·881	15 6	29·781	1
·747	·735	·732	·734	·744	·753	·776	·795	·798	·791	·791	08·84	9 45	·872	15 17	·726	2
·741	·721	·715	·715	·727	·743	·763	·789	·803	·804	·782	08·54	8 55	·863	16 30	·711	3
·761	·739	·737	·738	753	·766	·791	·805	·809	·803	·794	08·95	9 25	·867	15 25	·727	4
·770	·755	·760	·761	·769	·780	·800	·815	·829	·831	·809	09·45	9 35	·882	14 43	·754	5
·782	·767	·765	·759	·767	·779	·808	·814	·824	·830	·819	09·79	9 35	·901	16 3	·751	6
·813	·788	·783	·788	·804	·820	·851	·869	·878	·882	·832	10·24	23 17	·888	15 50	·782	7
·859	·832	·830	·831	·845	·853	870	·879	·883	·873	**·878**	**11·79**	9 43	**·981**	4 18	·819	8
·809	·788	·780	·779	·785	·796	·820	·833	·843	·840	·843	10·61	9 4	·919	16 30	·775	9
·793	·772	·765	·765	·780	·793	·816	·830	·837	·837	·819	09·79	9 43	·881	16 50	·763	10
·795	·775	·771	·775	·797	·815	·838	·845	·858	·861	·824	09·97	9 25	·881	16 6	·769	11
·820	·788	·784	·786	·798	·809	·829	·831	·845	·842	·842	10·58	10 6	·908	15 25	·782	12
·789	·768	·767	·779	·781	·798	·816	·834	·845	·840	·822	09·90	9 6	·890	15 40	·760	13
·815	·790	·790	·794	·808	·820	·846	·860	·869	·868	·836	10·37	8 19	·892	16 12	·788	14
·818	·788	·781	·781	·793	·810	·841	·863	·870	·862	·848	10·78	8 52	·908	16 25	·780	15
·831	·806	·799	·794	·799	·808	·831	·843	·849	·842	·845	10·68	9 46	·918	16 15	·792	16
·776	·751	·735	·736	·747	·753	·785	·796	·880	·800	·805	09·32	10 6	·880	15 50	·730	17
·790	·763	·755	·754	·769	·784	·810	·824	·840	·835	·803	09·25	9 20	·868	16 25	·746	18
·804	·780	·773	·770	·782	·792	·820	·836	·854	·860	·833	10·27	9 15	·914	15 43	·770	19
·791	·765	·755	·761	·766	·783	·797	·822	·838	·841	·831	10·20	10 6	·914	16 25	·752	20
·778	·760	·764	·757	·760	·778	·803	·830	·847	·842	·822	09·90	9 6	·902	15 3	·756	21
·795	·775	·776	·784	·807	·825	·852	·868	·880	·863	·837	10 41	9 25	·915	15 35	·769	22
·822	·809	·802	·803	·815	·833	·856	·880	·883	·883	·861	11·21	8 42	·941	15 43	·799	23
·800	·771	·765	·766	·781	·793	·815	·832	·847	·842	·837	10·41	8 17	·899	16 43	·761	24
·793	·773	·764	·758	·766	·785	·805	·825	·830	·822	·813	09·59	9 43	·879	16 55	·757	25
·782	·757	·743	·745	·758	·773	·787	·804	·806	·807	·800	09·15	9 12	·861	16 30	·739	26
·786	·770	·765	·769	·778	·794	·815	·849	·874	·870	·803	09·25	22 6	·879	3 45	·741	27
·803	·795	·783	·792	·801	·826	·840	·859	·867	·861	·834	10·31	9 52	·895	15 48	·779	28
·804	·788	·773	·767	·767	·767	·776	·785	·783	·778	·819	09·79	8 48	·889	18 25	·759	29
·726	·690	·689	**·680**	·692	·712	·731	·749	·756	·760	**·741**	**07·15**	9 10	·813	16 43	**·679**	30
·728	·711	·708	·714	·721	·737	·753	·767	·776	·780	·747	07·36	8 43	·813	15 40	·703	31
29·790	29·768	**29·763**	29·763	29·775	29·788	29·810	29·827	29·836	29·834	29·818	1009·76					Mean
—·028	—·050	**—·055**	—·055	—·043	—·030	—·008	+·009	+·018	+·016							Variation.
1008·81	1008·07	**1007·90**	1007·90	1008·31	1008·74	1009·49	1010·07	1010·37	1010·31							Mean in millibars
—·95	—1·69	**—1·86**	—1·86	—1·45	—1·02	—·27	+·31	+·61	+·55							Variation. in millibars.

APRIL.

29·781	29·742	29·724	29·738	29·738	29·761	29·783	29·795	29·803	29·801	29.779	1008·44	9 25	29·863	3 4	29·719	1
·806	·791	·782	·792	·803	·822	·839	·858	·861	·858	·825	10·00	9 17	·896	2 10	·756	2
·784	·759	·755	·754	·767	·781	·793	·863	·812	·808	·817	09·73	9 30	·883	16 35	·749	3
·762	·746	·751	·756	·781	·798	·811	·822	·830	·840	·800	09·15	8 35	·854	14 43	·744	4
·768	·745	·738	·740	·759	·773	·783	·796	·808	·813	·808	09·42	9 25	·888	16 30	·732	5
·785	·758	·747	·747	·758	·777	·793	·802	·815	·822	·806	09·35	9 10	·887	15 35	·745	6
·784	·756	·754	·759	·773	·800	·822	·838	·860	·854	·818	09·76	9 6	·888	15 44	·750	7
·761	·736	·728	·721	·735	·754	·774	·795	·810	·809	·802	09·22	9 20	·870	16 35	·718	8
·771	·747	·737	·735	·739	·749	·762	·786	·802	·813	·794	08·95	9 12	·863	17 15	·729	9
·763	·735	·712	·706	·725	·756	·770	·799	·803	·831	·786	08·67	10 15	·859	17 0	·705	10
·826	·797	·794	·786	·802	·830	·841	·854	·863	·868	**·841**	**10·54**	9 25	**·905**	16 50	·785	11
·774	·751	·741	·737	·748	·766	·788	·810	·812	·814	·813	09·59	9 43	·885	17 10	·735	12
·704	·673	·646	·646	·656	·681	·711	·739	·750	·750	·752	07·53	9 6	·835	16 16	·641	13
·768	·741	·738	·738	·751	·768	·783	·806	·817	·818	·768	08·07	10 0	·831	3 5	·685	14
·774	·755	·743	·745	·756	·784	·797	·796	·807	·795	·796	09·01	9 6	·857	16 45	·735	15
·715	·688	·676	·687	·704	·723	·734	·748	·755	·750	·753	07·56	8 46	·826	16 10	·672	16
·688	·664	646	·654	·655	·681	·699	·736	·745	·747	·723	06·54	9 33	·782	15 35	·644	17
·636	·612	**·594**	·606	·676	·669	·678	·684	·696	·700	·692	05·50	9 35	·770	16 30	**·578**	18
·631	·624	·620	·630	·647	·657	·708	·708	·716	·716	**·670**	**04·75**	9 0	·722	3 41	·610	19
·706	·693	·677	·690	·716	·754	·770	·781	·784	·788	·729	06·74	22 44	·790	3 32	·660	20
·746	·718	·703	·693	·712	·729	·753	·765	·773	·767	·763	07·90	9 30	·842	16 47	·692	21
·731	·712	·700	·700	·720	·743	·771	·797	·807	·807	·757	07·70	9 0	·808	16 16	·698	22
·746	·725	·707	·702	·724	·743	·772	·785	·796	·797	·776	08·34	9 18	·842	17 5	·698	23
·756	·733	·720	·712	·716	·734	·750	·772	·785	·785	·782	08·54	9 0	·842	16 45	·710	24
·765	·738	·710	·700	·705	·717	·734	·754	·781	·777	·771	08·17	8 52	·844	16 50	·696	25
·761	·742	·722	·710	·713	·726	·742	·764	·770	·756	·768	08·07	9 28	·854	17 2	·704	26
·724	·696	·664	·662	·671	·682	·694	·722	·744	·747	·737	07·02	9 10	·812	16 43	·660	27
·696	·682	·672	·666	·680	·694	·712	·734	·752	·761	.729	06·74	9 40	.796	16 55	·662	28
·735	·715	·700	·702	.717	·730	·751	·764	·764	·772	.749	07·42	8 25	·804	16 29	·696	29
·754	·742	·735	·743	·744	·754	·774	·792	·794	.792	·766	08·00	8 44	·816	3 45	·724	30
29·747	29·724	**29·711**	29·712	29·726	29·745	29·763	29·780	29·791	29·792	29·772	1008·21					Mean.
—·025	—·048	**—·061**	—·060	—·046	—·027	—·009	+·008	+·019	+·020							Variation.
1007·36	1006·58	**1006·13**	1006·17	1006·64	1007·29	1007·90	1008·47	1008·84	1008·88							Mean in millibars.
—1·85	—1·63	**—2·08**	—2·04	—1·57	—·92	—·31	+·26	+·63	+·67							Variation in millibars.

BAROMETRIC PRESSURE, 1937.

(Readings refer to exact hours of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours (B. M. T.)													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	29·782	29·774	29·761	29·754	29·761	29·764	29·780	29·802	29·822	29·831	29·830	29·821	29·804	29·787
2	·787	·766	·762	·754	·752	·762	·779	·798	·821	·836	·835	·817	·801	·785
3	·823	·802	·776	·763	·768	·784	·800	·825	·843	·849	·847	·839	·825	·802
4	·805	·784	·771	·760	·767	·774	·791	·814	·834	·845	·839	·825	·806	·777
5	·820	·803	·788	·780	·788	·798	·810	·826	·848	·862	·865	·859	·847	·814
6	·856	·838	·818	·815	·816	·826	·850	·875	·897	·907	·900	·895	·880	·863
7	·877	·857	·833	·825	·833	·841	·867	·885	·907	·906	·907	·895	·875	·839
8	·853	·831	·815	·807	·815	·825	·844	·863	·882	·895	·896	·885	·868	·847
9	·827	·808	·787	·779	·786	·783	·805	·831	·856	·867	·864	·855	·843	·814
10	·840	·823	·803	·801	·808	·816	·835	·859	·873	·889	·883	·874	·858	·832
11	·860	·849	·834	·830	·846	·858	·880	·893	·916	·917	·907	·894	·887	·857
12	·810	·806	·803	·797	797	·798	·818	·834	·850	·858	·845	·824	·803	·770
13	·753	·740	·748	·745	·748	·754	·764	·775	·790	·792	·787	·783	·761	·732
14	·748	·725	·692	·696	·696	·713	·728	·753	·772	·777	·775	·766	·754	·733
15	·759	·755	·755	·755	·762	·770	·797	·806	·826	·826	·818	·816	·800	·772
16	·786	·770	·761	·757	·764	·775	·794	·813	·835	·840	·835	·829	·809	·786
17	·745	·730	·711	·703	·704	·705	·725	·740	·756	·763	·759	·758	·744	·729
18	·708	·689	·677	·671	·670	·686	·702	·721	·732	·739	·741	·732	·724	·702
19	·729	·717	·71[illegible]	·715	·711	·719	·746	·763	·783	·789	·798	·787	·769	·749
20	·779	·759	·747	·746	·750	·764	·779	·805	·824	·826	·829	·824	·798	·781
21	·793	·775	·766	·760	·761	·767	·779	·798	·816	·824	·829	·823	·808	·791
22	·788	·764	·746	·745	·749	·761	·773	·789	·796	·806	·804	·793	·777	·756
23	·781	·772	753	·751	·761	·775	·793	·819	·829	·837	·839	·830	·815	·793
24	·764	·753	·742	·729	·737	·733	·752	·772	·805	·819	·818	·812	·798	·777
25	·777	·763	·751	·745	·746	·758	·773	·797	·816	·828	·825	·809	·786	·765
26	·781	·764	·756	·751	·751	·759	·779	·791	·809	·810	·819	·802	·780	·759
27	·779	·762	·752	·742	·741	·748	·763	·773	·786	·787	·785	·766	·750	·728
28	·729	·716	·716	·689	·690	·695	·721	·751	·756	·756	·758	·748	·734	·706
29	·718	·700	·687	·681	·687	·691	·710	·720	·738	·748	·750	·747	·736	·720
30	·713	·698	·693	·696	·701	·714	·721	·743	·755	·767	769	·762	·742	·717
31	·693	·690	·683	·682	·687	·685	·709	·717	·725	·729	·725	·722	·702	·690
Mean .	29·783	29·767	29·755	29·749	29·753	29·761	29·780	29·798	29·816	29·823	29·822	29·813	29·796	29·773
Variation.	+·010	—·006	—·018	—·024	—·020	—·012	+·007	+·025	+·043	+·050	+·049	+·040	+·023	·000
Mean in millibars.	1008·57	1008·04	1007·63	1007·42	1007·56	1007·83	1008·47	1009·08	1009·69	1009·93	1009·90	1009·59	1009·01	1008·24
Variation in millibars.	+·33	—·20	—·61	—·82	—·68	—·41	+·23	+·84	+1·45	+1·69	+1·66	+1·35	+·77	·00

JUNE.

1	29·662	29·640	29·622	29·613	29·621	29·629	29·649	29·665	29·676	29·680	29·672	29·663	29·651	29·628
2	·612	·595	·586	·587	·594	·602	·620	·637	·650	·662	·664	·658	·640	·628
3	·628	·618	·611	·623	·618	·629	·647	·668	·686	·698	·694	·686	·672	·658
4	·663	·653	·643	·646	·656	·669	·689	·699	·719	·726	·730	·723	·715	·695
5	·726	·709	·702	·694	·695	·699	·717	·735	·747	·750	·745	·736	·721	·694
6	·681	·670	·652	·650	·660	·667	·688	·701	·720	·737	·744	·744	·741	·718
7	·710	·696	·689	·690	·674	·685	·706	·720	·740	·746	·746	·742	·728	·704
8	·696	·686	·667	·660	·660	·674	·693	·709	·725	·728	·721	·710	·697	·670
9	·668	·661	·653	·656	·650	·662	·683	·699	·708	·709	·703	·685	·682	·665
10	·670	·648	·636	·632	·633	·640	·658	·671	·697	·699	·704	·699	·674	·650
11	·661	·650	·640	·640	·637	·637	·645	·651	·665	·675	·671	·674	·657	·627
12	·665	·651	·652	·643	·609	·617	·642	·657	·669	·679	·683	·671	·655	·627
13	·648	·613	·588	·598	·590	·584	·602	·627	·636	·636	·634	·617	·609	·580
14	·630	·623	·612	·602	·584	·584	·626	·662	·668	·678	·679	·670	·656	·653
15	·712	·693	·674	·672	·674	·679	·688	·712	·726	·740	·736	·737	·732	·708
16	·734	·716	·698	·682	·690	·684	·694	·706	·735	·745	·749	·745	·735	·711
17	·740	·721	·715	·701	·711	·720	·730	·743	·789	·801	·789	·780	·765	·745
18	·733	·713	·693	·681	·677	·704	·713	·733	·745	·753	·755	·753	·734	·700
19	·695	·685	·665	·647	·637	·643	·667	·684	·685	·695	·699	·696	·681	·667
20	·678	·654	·630	·617	·622	·652	·668	·698	·698	·696	·716	·716	·706	·688
21	·690	·667	·648	·632	·643	·644	·657	·661	·670	·681	·686	·678	·666	·650
22	·640	·609	·586	·572	·567	·566	·592	·604	·626	·643	·646	·657	·633	·630
23	·617	·587	·564	·556	·565	·568	·578	·594	·610	·614	·618	·617	·616	·596
24	·579	·548	·535	·526	·518	·524	·538	·557	·575	·585	·586	·578	·561	·556
25	·607	·590	·576	·574	·573	·569	·599	·621	·642	·660	·671	·674	·677	·668
26	·696	·672	·658	·656	·648	·648	·664	·683	·698	·706	·704	·702	·709	·696
27	·664	·646	·628	·611	·608	·617	·626	·636	·642	·647	·654	·657	·641	·624
28	·575	·550	·535	·520	·529	·531	·547	·558	·583	·582	·583	·571	·558	·552
29	·546	·538	·534	·541	534	·541	·560	·578	·590	·596	·596	·596	·590	·594
30	·594	·584	·568	·556	·532	·566	·578	·597	·607	·613	·615	·613	·599	·594
Mean .	29·661	29·643	29·629	29·623	29·621	29·628	29·645	29·662	29·678	29·685	29·686	29·681	29·670	29·653
Variation.	+·013	—·005	—·019	—·025	—·027	—·020	—·003	+·014	+·030	+·037	+·038	+·033	+·022	+·005
Mean in millibars.	1004·44	1003·83	1003·36	1003·16	1003·09	1003·33	1003·90	1004·48	1005·02	1005·26	1005·29	1005·12	1004·75	1004·17
Variation in millibars.	+·44	—·17	—·64	—·84	—·91	—·67	—·10	+·48	+1·02	+1·26	+1·29	+1·12	+·75	+·17

(Readings refer to exact hours of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Hours (B. M. T.).										Mean in		Maximum.		Minimum.		Date.
14	15	16	17	18	19	20	21	22	23	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·765	29·752	29·740	29·744	29·757	29·768	29·786	29·795	29·801	29·795	29·782	1008·54	9 30	29·836	16 6	29·738	1
·763	·756	·748	·757	·777	·793	·817	·832	·837	·835	·790	08·81	21 43	·841	16 15	·745	2
·781	·761	·751	·759	·771	·782	·803	·816	·827	·823	·801	09·18	8 52	·854	15 50	·750	3
·755	·740	·737	·739	·759	·779	·804	·815	·825	·825	·790	08·81	8 43	·847	16 27	·731	4
·797	·787	·771	·788	·805	·827	·842	·856	·873	·875	·822	09·97	22 25	·878	15 45	·770	5
·840	·831	·811	·813	·827	·853	·871	·889	·899	·891	**·857**	**11·08**	8 50	·909	16 16	·809	6
·823	·810	·789	·796	·802	·825	·845	·859	·869	·864	·851	10·87	8 39	·911	16 16	·787	7
·829	·807	·788	·789	·797	·813	·827	·847	·856	·846	·839	10·47	8 55	·899	16 47	·783	8
·793	·785	·771	·778	·785	·803	·811	·835	·856	·852	·816	09·69	9 7	·875	16 17	·769	9
·811	·785	·773	·775	·789	·811	·829	·849	·865	·872	·831	10·20	9 25	·897	16 6	·771	10
·829	·798	·773	·767	·768	·782	·812	·830	·829	·827	·843	10·61	8 45	**·922**	17 10	·762	11
·735	·713	·688	·686	·698	·714	·750	·754	·774	·775	·779	08·44	9 10	·867	16 40	·684	12
·705	·683	·658	·644	·654	·679	·718	·749	·768	·766	·737	07·02	8 20	·798	16 46	·642	13
·714	·695	·678	·678	·686	·708	·738	·755	·768	·770	·730	06·78	9 0	·778	2 10	·674	14
·741	·729	·725	·727	·738	·758	·767	·785	·803	·801	·775	08·31	8 23	·832	15 25	·724	15
·760	·744	·734	·733	·746	·751	·757	·763	·762	·758	·778	08·41	8 47	·843	16 43	·731	16
·711	·686	669	·671	·677	·684	·708	·728	·731	·733	·720	06·44	8 57	·769	16 18	·667	17
·682	·664	·654	·658	·678	·686	·709	·729	·737	·745	·701	05·79	23 6	·747	15 43	·653	18
·739	·723	·715	·721	·744	·763	·786	·807	·822	·807	·755	07·63	22 10	·823	2 12	·709	19
·756	·749	·751	·751	·760	·777	·796	·807	·814	·803	·782	08·54	9 25	·833	2 6	·741	20
·761	·745	·729	·727	·729	·748	·767	·784	·801	·803	·779	08·44	9 44	·837	16 37	·723	21
·738	·722	·717	·728	·740	·763	·781	·793	·799	·795	·768	08·67	9 16	·809	15 52	·713	22
·769	·750	·726	·728	·733	·743	·756	·760	·767	·763	·777	08·38	9 17	·845	15 50	·725	23
·760	·742	·733	·734	·751	·766	·781	·788	·793	·787	·769	08·10	9 35	·825	3 6	·727	24
·751	·740	·731	·730	·742	·742	·755	·769	·784	·788	·770	08·14	8 52	·852	16 20	·724	25
·744	·726	·719	·713	·716	·724	·746	·764	·782	·782	·764	07·94	9 36	·826	17 31	·708	26
·713	·699	·684	·666	·688	·712	·733	·724	·732	·738	·740	07·12	9 36	·792	17 10	·662	27
·687	·670	·652	·638	·654	·675	·696	·718	·731	·725	·709	06·06	7 25	·758	17 16	·636	28
·708	·690	·681	·670	·678	·696	·711	·722	·723	·715	·709	06·06	9 43	·754	16 55	·668	29
·694	·675	·659	·660	·671	·673	·691	·705	·711	·700	·710	06·10	9 42	·775	16 40	·655	30
·671	·654	·639	**·634**	·641	·657	·669	·674	·675	·671	**·684**	**05·23**	8 6	·730	16 45	**·629**	31
29·752	29·736	**29·722**	29·723	29·734	29·750	29·769	29·784	29·794	29·791	29·773	1008·24					Mean.
—·021	—·037	**—·051**	—·050	—·039	—·023	—·004	+·011	+·021	+·018							Variation.
1007·53	1006·98	**1006·51**	1006·54	1006·92	1007·46	1008·10	1008·61	1008·95	1008·84							Mean in millibars.
—·71	—1·26	**—1·73**	—1·70	—1·32	—·78	—·14	+·37	+·71	+·60							Variation in millibars.

JUNE.

29·608	29·590	29·579	29·582	29·591	29·610	29·628	29·634	29·640	29·628	29·632	1003·46	8 22	29·682	15 42	29·578	1
·611	·596	·583	·585	·595	·608	·622	·635	·642	·640	·619	03·02	9 35	·678	16 6	·580	2
·635	·620	·602	·602	·622	·644	·660	·676	·680	·679	·648	04·00	9 6	·700	16 40	·598	3
·684	·663	·652	·652	·661	·679	·702	·715	·731	·739	·688	05·36	22 55	·741	1 43	·637	4
·675	·658	·648	·651	·659	·671	·689	·700	·707	·697	·701	05·79	9 6	·755	16 28	·647	5
·706	·688	·678	·674	·688	·703	·716	·722	·730	·728	·700	05·76	10 45	·746	2 40	·648	6
·682	·664	·658	·658	·668	·681	·700	·710	·720	·718	·701	05·79	9 16	·754	15 46	·656	7
·650	·631	·617	·613	·625	·632	·662	·677	·683	·683	·674	04·89	8 40	·730	16 25	·610	8
·643	·628	·624	·618	·628	·638	·661	·667	·684	·683	·665	04·58	8 45	·722	16 30	·616	9
·629	·608	·584	·590	·598	·642	·660	·661	·671	·674	·651	04·10	9 55	·707	16 20	·581	10
·609	·588	·590	·601	·617	·635	·652	·664	·667	·671	·643	03·83	8 55	·677	15 23	·583	11
·603	·571	·544	·566	·565	·639	·615	·645	·655	·659	633	03·49	9 19	·687	16 5	·541	12
·560	·526	·541	·528	·539	·572	·590	·615	·618	·635	·595	02·21	23 25	·649	14 55	·524	13
·647	·645	·636	·624	·649	·667	·682	·702	·712	·718	·650	04·07	22 55	·720	4 12	·578	14
·702	·696	·678	·676	·686	·698	·713	·736	·751	·742	·707	06·00	22 15	·762	3 45	·672	15
·693	·680	·679	·671	·689	·707	·741	·761	·771	·767	·716	06·30	22 35	·781	17 7	·670	16
·726	·709	·693	·701	·707	·705	·720	·735	·741	·745	**·735**	**06·95**	9 4	**·809**	15 38	·690	17
·686	·667	·655	·672	·677	·691	·697	·712	·714	·709	·707	06·00	10 45	·759	16 6	·653	18
·654	·645	·630	·629	·644	·660	·686	·687	·694	·684	·669	04·71	9 22	·703	16 12	·625	19
·674	·669	·657	·657	·654	·667	·696	·706	·707	·702	·676	04·95	10 45	·722	3 25	·606	20
·632	·621	·608	·606	·605	·617	·630	·642	·650	·645	·647	03·97	0 0	·690	15 25	·596	21
·604	·577	·564	·568	·575	·584	·595	·610	·618	·627	·604	02·52	11 6	·662	4 48	·562	22
·575	·552	·532	·534	·545	·558	·574	·607	·608	·599	·583	01·80	8 43	·622	16 30	·530	23
·555	·548	·540	·540	·552	·569	·583	·602	·612	·618	·562	01·09	22 39	·620	4 15	·516	24
·658	·639	·642	·642	·654	**·663**	·668	·682	·698	·707	·640	03·73	22 45	·708	4 45	·566	25
·686	·670	·660	·657	·656	·673	·671	·678	·688	·678	·677	04·99	11 50	·714	3 43	·646	26
·608	·596	·572	·583	·587	·589	·602	·601	·609	·598	·619	03·02	10 30	·665	15 55	·570	27
·534	·513	**·507**	·511	·522	·535	·553	·557	·563	·556	**·547**	**00·59**	7 40	·589	16 10	**·501**	28
·595	·588	·575	·567	·570	·583	·594	·602	·607	·607	·576	01·56	21 35	·614	3 40	·530	29
·580	·572	·561	·557	·552	·569	·572	·576	·582	·582	·581	01·73	10 20	·622	18 30	·548	30
29·637	29·621	**29·610**	29·610	29·619	29·636	29·651	29·664	29·672	29·671	29·648	1004·00					Mean.
—·011	—·027	**—·038**	—·038	—·029	—·012	+·003	+·016	+·024	+·023							Variation.
1003·63	1003·09	**1002·72**	1002·72	1003·02	1003·59	1004·10	1004·55	1004·82	1004·78							Mean in millibars.
—·37	—·91	**—1·28**	—1·28	—·98	—·41	+·10	+·55	+·82	+·78							Variation in millibars.

BAROMETRIC PRESSURE, 1937.

(Readings refer to exact hours of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32°F.)

Date.	Hours. (B. M. T.)													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	29·570	29·555	29·544	29·538	29·531	29·536	29·545	29·552	29·578	29·588	29·584	29·581	29·576	29·558
2	·559	·545	·526	·520	·518	·520	·537	·552	·574	·589	·589	·592	·576	·558
3	·585	·568	·557	·546	·547	·558	·581	·594	·610	·626	·632	·634	·620	·616
4	·652	·626	·600	·607	·606	·606	·624	·642	·656	·671	·673	·670	·657	·640
5	·678	·648	·634	·620	·618	·616	·644	·649	·679	·687	·688	·686	·683	·656
6	·636	·612	·606	·592	·598	·598	·615	·629	·648	·643	·647	·645	·630	·620
7	·649	·645	·631	·630	·633	·636	·658	·671	·689	·693	·695	·691	·679	·671
8	·710	·687	·676	·665	·655	·659	·676	·689	·710	·723	·715	·711	·716	·707
9	·718	·693	·677	·665	·676	·667	·667	·686	·701	·709	·708	·697	·686	·677
10	·653	·626	·605	·593	·579	·581	·595	·621	·648	·657	·661	·656	·637	·611
11	·614	·588	·571	·562	·560	·562	·580	·596	·608	·612	·622	·612	·596	·592
12	·640	·622	·597	·578	·566	·569	·588	·596	·604	·626	·636	·628	·625	·606
13	·615	·600	·590	·574	·562	·581	·594	·616	·628	·632	·640	·630	·612	·606
14	·609	·583	·576	·578	·575	·583	·580	·603	·610	·618	·624	629	·624	·616
15	·630	·619	·608	·600	·592	·588	·609	·626	·638	·647	·656	·656	·644	·629
16	·637	·625	·611	·605	·609	·615	·633	·649	·657	·676	·661	·663	·653	·641
17	·660	·641	·611	·601	·605	·607	·624	·637	·648	·653	·655	·648	·638	·620
18	·610	·587	·576	·567	·570	·570	·586	·598	·610	·622	·624	·620	·606	·588
19	·626	·602	·592	·592	·590	·598	·626	·636	·647	·651	·644	·646	·646	·632
20	·676	·655	·635	·620	·619	·620	·639	·653	·668	·670	·665	·663	·648	·635
21	·619	·601	·586	·577	·573	·581	·591	·612	·628	·635	·639	·639	·634	·623
22	·641	·631	·609	·591	·600	·621	·625	·627	·641	·659	·672	·669	·659	·646
23	·619	·589	·571	·555	·554	·561	·581	·593	·601	·621	·621	·616	·605	·595
24	·578	·556	·550	·548	·543	·549	·566	·587	·609	·617	·621	·617	·609	·604
25	·593	·576	·567	·563	·561	·569	·598	·613	·631	·643	·645	·643	·637	·627
26	·658	·642	·633	·624	·626	·621	·633	·652	·671	·680	·681	·689	·687	·681
27	·693	·683	·666	·658	·656	·662	·669	·687	·698	·707	·708	·710	·694	·688
28	·694	·686	·660	·648	·656	·658	·681	·701	·714	·719	·720	·722	·709	·692
29	·699	·686	·659	·648	·649	·660	·673	·691	·708	·713	·715	·711	·699	·689
30	·674	·662	·641	·637	·637	·645	·658	·668	·691	·698	·695	·695	·679	·673
31	·680	·651	·647	·645	·646	·653	·679	·697	·719	·721	·715	·716	·704	·684
Mean .	29·641	29·622	29·607	29·598	29·597	29·602	29·618	29·633	29·649	29·658	29·660	29·658	29·647	29·635
Variation	+·012	—·007	—·022	—·031	—·032	—·027	—·011	+·004	+·020	+·029	+·031	+·029	+·018	+·006
Mean in millibars.	1003·76	1003·13	1002·62	1002·31	1002·28	1002·45	1002·99	1003·49	1004·03	1004·34	1004·41	1004·34	1003·97	1003·56
Variation in millibars.	+·40	—·23	—·74	—1·05	—1·08	—·91	—·37	+·13	+·67	+·98	+1·05	+·98	+·61	+·20

AUGUST.

1	29·654	29·634	29·617	29·615	29·624	29·629	29·646	29·652	29·664	29·676	29·674	29·663	29·649	29·633
2	·633	·609	·596	·578	·587	·589	·609	·627	·649	·659	·667	·663	·647	·636
3	·599	·584	·559	·551	·556	·558	·569	·589	·591	·615	·623	·623	·609	·597
4	·579	·553	·539	·527	·530	·541	·571	·585	·591	·609	·617	·616	·609	·591
5	·623	·608	·596	·586	·585	·597	·614	·641	·658	·668	·663	·666	·656	·648
6	·678	·660	·642	·641	·640	·647	·656	·680	·696	·704	·714	·708	·698	·684
7	·686	·679	·658	·641	·645	·654	·665	·690	·706	·714	·722	·726	·718	·708
8	·722	·713	·697	·694	·698	·703	·716	·741	·754	·770	·780	·774	·759	·742
9	·762	·747	·727	·714	·712	·720	·736	·764	·772	·782	·790	·796	·775	·763
10	·738	·710	·696	·688	·681	·688	·702	·711	·725	·746	·748	·756	·744	·726
11	·738	·715	·703	·692	·699	·707	·725	·743	·762	·775	·777	·779	·765	·757
12	·766	·756	·748	·743	·742	·753	·766	·780	·798	·808	·815	·817	·798	·781
13	·774	·758	·748	·738	·740	·751	·768	·785	·802	·814	·806	·805	·797	·782
14	·790	·773	·760	·756	·758	·765	·780	·801	·820	·831	·828	·823	·814	·807
15	·783	·763	·743	·728	·729	·736	·755	·768	·785	·793	·792	·788	·768	·752
16	·725	·706	·693	·687	·683	·697	·709	·729	·745	·749	·756	·751	·737	·723
17	·716	·705	·690	·688	·692	·702	·721	·751	·768	·786	·794	·792	·782	·779
18	·793	·777	·771	·762	·751	·767	·780	·809	·828	·841	·840	·834	·819	·791
19	·802	·789	·775	·764	·760	·764	·784	·811	·818	·826	·825	·819	·804	·781
20	·767	·762	·736	·728	·732	·741	·758	·781	·790	·796	·792	·789	·773	·759
21	·726	·707	·686	·674	·669	·774	·693	·713	·735	·739	·742	·731	·706	·690
22	·687	·675	·660	·649	·658	·664	·672	·697	·706	·713	·712	·706	·694	·678
23	·695	·678	·663	·653	·652	·659	·675	·700	·722	·731	·736	·740	·731	·716
24	·732	·723	·717	·713	·711	·710	·726	·748	·769	·796	·788	·781	·776	·749
25	·752	·731	·718	·706	·700	·709	·720	·743	·763	·775	·781	·776	·762	·747
26	·739	·719	·707	·699	·698	·703	·720	·743	·763	·776	·777	·759	·740	·721
27	·750	·737	·722	·708	·719	·726	·742	·756	·776	·791	·788	·782	·773	·746
28	·758	·742	·726	·717	·727	·734	·743	·763	·777	·794	·801	·792	·774	·750
29	·777	·764	·744	·731	·738	·747	·767	·786	·821	·848	·841	·832	·820	·801
30	·827	·820	·801	·793	·796	·804	·825	·853	·867	·882	·886	·866	·853	·833
31	·817	·796	·771	·758	·754	·756	·774	·796	·812	·824	·824	·815	·796	·774
Mean .	29·729	29·713	29·697	29·688	29·689	29·697	29·712	29·733	29·749	29·762	29·764	29·760	29·747	29·730
Variation.	·005	—·011	—·027	—·036	—·035	—·027	—·012	+·009	+·025	+·038	+·040	+·036	+·023	—·006
Mean in millibars.	1006·74	1006·20	1005·67	1005·36	1005·39	1005·67	1006·17	1006·88	1007·42	1007·87	1007·94	1007·80	1007·36	1006·78
Variation in millibars.	+·16	—·38	—·91	—1·22	—1·19	—·91	—·41	+·30	+·84	+1·29	+1·36	+1·22	+·78	+·20

Readings refer to exact hours of local mean time.

JULY. (IN INCHES OF MERCURY AT 32° F.)

Hours. (B. M. T.)										Mean in		Maximum.		Minimum		Date.
14	15	16	17	18	19	20	21	22	23	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·545	29·534	29·529	29·526	29·532	29·543	29·557	29·568	29·582	29·577	29·555	1000·86	9 06	29·594	16 6	29·524	1
·545	·520	·512	·524	·536	·556	·580	·587	·597	·592	·554	00·83	10 33	·600	16 12	·506	2
·594	·586	·577	·587	·600	·624	·656	·664	·676	·677	·605	02·55	22 18	·684	3 42	·546	3
·626	·618	·608	·608	·618	·634	·657	·678	·686	·687	·640	03·73	22 28	·694	3 50	·596	4
·638	·618	·602	·600	·618	·631	·636	·656	·656	·652	·646	03·93	9 25	·696	15 55	·596	5
·605	·585	·581	·580	·597	·617	·640	·660	·669	·666	·622	03·13	21 47	·672	16 43	·578	6
·677	·670	·646	·649	·659	·676	·696	·713	·724	·718	·671	04·78	22 35	·731	3 7	·627	7
·693	·675	·674	·671	·676	·686	·698	·716	·725	·729	·693	05·53	23 6	·733	4 10	·653	8
·655	·641	·618	·607	·607	·627	·645	·659	·669	·661	·667	04·65	8 45	·719	16 43	·603	9
·581	·571	·553	·559	·569	·575	·591	·605	·619	·613	·607	02·62	9 55	·669	16 35	·547	10
·588	·590	·580	·590	·608	·622	·640	·652	·663	·658	·603	02·48	21 55	·668	4 16	·558	11
·588	·582	·586	·590	·604	·624	·632	·636	·636	·635	·608	02·65	20 40	·644	4 10	·564	12
·598	·582	·576	·584	·590	·592	·596	·602	·602	·607	·600	02·38	9 23	·648	4 20	·560	13
·606	·597	·570	·579	·586	·598	·610	·636	·654	·646	·604	02·52	22 20	·656	4 6	·566	14
·619	·606	·600	·599	·616	·632	·659	·660	·663	·651	·627	03·30	20 36	·666	4 20	·584	15
·633	·615	·601	·595	·611	·627	·655	·663	·668	·669	·636	03·59	22 30	·679	16 20	·593	16
·597	·579	·585	·579	·589	·599	·607	·623	·637	·628	·620	03·06	10 6	·661	16 25	·577	17
·572	·566	·552	·552	·567	·591	·614	·628	·644	·638	·594	02·18	22 6	·648	16 35	·548	18
·624	·619	·604	·603	·624	·642	·657	·678	·685	·678	·631	03·42	21 45	.638	4 10	·585	19
·612	·595	·581	.580	·589	·602	·613	·625	·637	·629	·630	03·39	22 6	·677	16 6	·579	20
·611	·593	·590	·590	·601	·620	·637	·645	·651·	·651	·614	02·86	21 20	·655	4 15	·569	21
·621	·611	·593	·591	·599	·609	·619	·633	·635	·633	·626	03·26	10 6	·677	17 55	·587	22
·577	·556	·549	·537	·551	·555	·573	·581	·598	·599	·582	01·77	9 18	·625	16 30	·537	23
·591	·564	·563	·561	·578	·583	·601	·607	·616	·608	·584	01·84	10 10	·625	2 16	·539	24
·618	·607	·599	·602	·619	·633	·647	·655	·661	·666	·616	02·92	22 30	·673	3 40	·559	25
·674	·660	·647	·648	·657	·671	·681	·691	·704	·701	·663	04·51	22 10	·709	4 15	·620	26
·672	·658	·642	·643	·648	·663	·687	·698	·712	·712	·680	05·09	10 5	·716	16 15	·638	27
·668	·657	·640	·640	·654	·666	·687	·700	·710	·711	·683	05·19	10 35	·72	16 10	·638	28
·672	·660	·649	·649	·658	·676	·688	·696	·697	·691	·681	05·12	10 8	·725	3 15	·643	29
·666	·661	·656	·656	·668	·679	·696	·693	·706	·695	·672	04·82	21 45	·706	2 50	·635	30
·673	·657	·646	·639	·647	·653	·668	·669	·677	·665	·673	04·85	8 37	·729	17 6	·637	31
29·621	29·608	29·597	29·597	29·609	29·623	29·639	29·651	29·660	29·656	29·629	1003·36					Mean.
—·008	—·021	—·032	—·032	—·020	·006	+·010	+·022	+·031	+·027							Variation.
1003·09	1002·65	1002·28	1002·28	1002·68	1013·16	1003·69	1004·10	1004·41	1004·27							Mean in millibars
—·27	—·71	—1·08	—1·08	—·68	—·20	+·33	+·74	+1·05	+·91							Variation in millibars.

AUGUST.

29·619	29·611	29·607	29·605	29·625	29·627	29·637	29·643	29·648	29·637	29·637	1003·63	9 47	29·681	15 46	29·604	1
·609	·606	·596	·591	·595	·609	·625	·627	·631	·615	·619	03·02	10 25	·671	2 55	·577	2
·587	·571	·553	·563	·567	·563	·575	·591	·599	·597	·583	01·80	10 18	·631	3 35	·547	3
·577	·557	·557	·558	·577	·595	·626	·629	·636	·631	·583	01·80	21 40	·643	4 25	·525	4
·642	·636	·620	·621	·634	·653	·673	·682	·696	·690	·640	03·73	22 6	·698	3 30	·582	5
·674	·660	·648	·645	·652	·665	·683	·695	·696	·693	·673	04·85	9 44	·716	3 30	·636	6
·696	·686	·682	·682	·692	·709	·726	·736	·736	·741	·696	05·63	21 35	·746	3 0	·640	7
·737	·724	·716	·721	·735	·748	·769	·774	·780	·774	·739	07·08	10 25	·786	3 6	·692	8
·749	·732	·720	·719	·732	·746	·756	·770	·774	·761	·751	07·49	10 43	·798	3 22	·710	9
·708	·701	·695	·698	·708	·727	·742	·756	·757	·752	·721	06·47	10 40	·764	3 49	·678	10
·735	·722	·721	·725	·740	·757	·775	·784	·790	·783	·745	07·29	21 55	·793	2 45	·687	11
·767	·757	·745	·746	·758	·770	·784	·795	·792	·790	·774	08·28	10 50	·822	2 50	·742	12
·765	·762	·755	·761	·770	·784	·796	·800	·812	·800	·778	08·41	21 35	·818	3 0	·738	13
·794	·789	·777	·777	·782	·789	·796	·799	·813	·806	·793	08·91	9 0	·832	3 25	·752	14
·737	·716	·713	·715	·725	·733	·743	·752	·759	·744	·751	07·49	9 16	·795	16 10	·711	15
·703	·697	·691	·685	·696	·708	·724	·732	·741	·732	·717	06·34	10 28	·761	3 50	·681	16
·753	·747	·736	·737	·750	·782	·800	·819	·818	·810	·755	07·63	21 20	·822	2 50	·684	17
·772	·756	·739	·744	·760	·784	·800	·814	·811	·807	·790	08·81	9 32	·844	16 25	·786	18
·758	·742	·732	·732	·742	·763	·775	·783	·790	·779	·780	08·47	9 6	·828	16 50	·730	19
·728	·714	·698	·698	·700	·715	·728	·745	·748	·738	·747	07·36	9 6	·806	16 6	·696	20
·670	·654	·643	·655	·664	·680	·696	·709	·701	·700	·694	05·57	9 43	·748	15 45	·642	21
·659	·646	·640	·647	·659	·677	·690	·699	·704	·703	·679	05·05	8 43	·714	15 50	·638	22
·702	·686	·671	·677	·689	·706	·717	·725	·732	·731	·699	05·73	10 28	·742	3 42	·646	23
·738	·723	·706	·706	·725	·743	·750	·766	·772	·769	·743	07·22	9 0	·796	16 53	·704	24
·737	·716	·704	·712	·725	·736	·755	·762	·766	·755	·740	07·12	10 6	·786	4 6	·699	25
·700	·686	·682	·692	·708	·726	·732	·748	·762	·762	·728	06·71	9 26	·780	15 43	·606	26
·732	·728	·727	·731	·738	·754	·762	·772	·775	·769	·750	07·46	8 58	·794	3 0	·706	27
·732	·724	·724	·734	·749	·763	·776	·791	·793	·786	·757	07·70	9 45	·805	2 50	·715	28
·804	·780	·773	·780	·788	·798	·813	·827	·837	·837	·794	08·95	9 5	·851	3 6	·729	29
·817	·792	·784	·786	·803	·816	·824	·834	·835	·825	·826	10·03	9 43	·891	15 45	·779	30
·753	·738	·737	·736	·749	·754	·766	·789	·796	·787	·778	08·41	8 50	·826	16 15	·732	31
29·715	29·702	29·693	29·696	29·708	29·722	29·736	29·747	29·752	29·745	29·724	1006·58					Mean.
—·009	—·022	—·031	—·028	—·016	—·002	+·012	+·023	+·028	+·021							Variation.
1006·27	1005·83	1005·53	1005·63	1006·03	1006·51	1006·98	1007.36	1007·53	1007·29							Mean in millibar
—·31	—·75	—1·05	—·95	—·55	—·07	+·40	+·78	+·95	+·71							Variation in millibars.

BAROMETRIC PRESSURE, 1937.

Readings refer to exact hours of local mean time.

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours. (B. M. T.)													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	29·777	29·758	29·740	29·736	29·736	29·745	29·757	29·777	29·797	29·810	29·807	29·801	29·781	29·766
2	·783	·772	·754	·745	·752	·763	·782	·802	·815	·829	·828	·817	·792	·771
3	·794	·777	·760	·749	·745	·753	·774	·790	·810	·821	·822	·817	·798	·779
4	·784	·771	·753	·742	·737	·744	·761	·777	·800	·814	·820	·812	·794	·765
5	·764	·752	·735	·726	·723	·732	·744	·758	·784	·794	·801	·790	·776	·754
6	·780	·763	·745	·737	·734	·740	·747	·762	·790	·807	·806	·800	·785	·759
7	·749	·730	·720	·718	·709	·716	·726	·745	·766	·779	·788	·775	·759	·738
8	·742	·730	707	·697	·692	·699	·707	·718	·747	·754	·759	·757	·750	·730
9	·764	·749	·730	·725	·731	·745	·749	·768	·793	·801	·805	·802	·787	·764
10	·787	·772	·748	·743	·744	·748	·763	·789	·799	·803	·805	·804	·789	·764
11	·772	·759	·738	·732	·729	·731	·742	·754	·774	·781	·783	·765	·755	·745
12	·774	·756	·736	·730	·731	·738	·753	·766	·801	·809	·820	·811	·791	·773
13	·786	·756	·738	·723	·730	·743	·768	·795	·833	·836	·844	·840	·827	·816
14	·821	·804	·784	·780	·784	·788	·807	·828	·843	·854	·858	·855	·842	·811
15	·825	·811	·798	·798	·807	·817	·824	·848	·869	·875	·875	·865	·848	·831
16	·846	·832	·812	·808	·808	·825	·841	·867	·876	·891	·888	·882	·860	·833
17	·860	·843	·821	·817	·808	·817	·831	·849	·868	·876	·876	·870	·845	·818
18	·838	·817	·798	·798	·804	·822	·836	·862	·880	**·898**	·898	·883	·855	·827
19	·839	·821	·805	·791	·792	·802	·831	·853	·867	·877	·873	·865	·839	·808
20	·806	·785	·775	·772	·781	·787	·801	·812	·832	·840	·845	·839	·794	·778
21	·765	·754	·754	·747	·743	·750	·766	·805	·832	·835	·833	·829	·792	·760
22	·758	·742	·732	·732	·734	·746	·763	·784	·808	·825	·826	·811	·779	·737
23	·763	·748	·736	·731	·734	·757	·781	·807	·839	·846	·846	·832	·806	·770
24	·796	·786	·774	·765	·771	·777	·788	·809	·829	·837	·845	·837	·809	·763
25	·767	·750	·744	·742	·749	·763	·781	·795	·818	·827	·822	·814	·789	·741
26	·798	·765	·743	·744	·749	·765	·783	·805	·813	·825	·822	·813	·783	·739
27	·774	·758	·746	·742	·736	·742	·766	·784	·806	·820	·828	·825	·792	·762
28	·775	·751	·731	·722	·731	·748	·769	·789	·808	·811	·813	·804	·769	·747
29	·770	·752	·732	·732	·731	·743	·770	·798	·806	·821	·818	·806	·775	·733
30	·786	·753	·724	·715	·726	·745	·766	·792	·808	·815	·805	·795	·768	·747
Mean	29·788	29·771	29·754	29·748	29·749	29·760	29·776	29·796	29·817	29·827	**29·829**	29·821	29·798	29·771
Variation.	+·007	—·010	—·027	—·033	—·032	—·021	—·005	+·015	+·036	+·046	**+·048**	+·040	+·017	—·010
Mean in millibars.	1008·74	1008·17	1007·60	1007·39	1007·42	1007·80	1008·34	1009·01	1009·73	1010·07	**1010·13**	1009·86	1009·08	1008·17
Variation in millibars.	+·24	—·33	—·90	—1·11	—1·08	—·70	—·16	+·51	+1·23	+1·57	**+1·63**	+1·36	+·58	—·33

OCTOBER.

1	29·746	29·735	29·724	29·728	29·725	29·727	29·738	29·753	29·674	29·797	29·796	29·780	29·761	29·724
2	·720	·703	·681	·668	·667	·673	·639	·712	·734	·751	·754	·737	·700	·665
3	·670	·652	·656	·640	·618	·622	·638	·660	·685	·694	·695	·682	·659	·622
4	·638	·626	·614	·596	·595	·608	·625	·646	·666	·688	·680	·667	·640	·608
5	·648	·639	·631	·631	·638	·653	·674	·696	·720	·738	·739	·732	·706	·682
6	·735	·732	·726	·723	·732	·735	·756	·785	·798	·806	·807	·794	·760	·738
7	·788	·779	·772	·774	·774	·789	·810	·836	·858	·860	·857	·836	·804	·782
8	·809	·792	·783	·789	·791	·803	·826	·849	·863	·877	·872	·862	·833	·802
9	·813	·803	·805	·807	·814	·829	·847	·865	·887	·901	·895	·877	·848	·825
10	·844	·825	·818	·818	·820	·828	·848	·872	·893	·898	·894	·879	·842	·810
11	·842	·825	·817	·811	·817	·827	·848	·865	·877	·885	·874	·857	·827	·799
12	·838	·826	·813	·806	·810	·825	·847	·873	·887	·901	·899	·876	·848	·818
13	·853	·829	·810	·808	·811	·825	·844	·860	·875	·887	·884	·865	·837	·812
14	·816	·802	·797	·792	·792	·802	·824	·843	·856	·866	·860	·838	·806	·789
15	·824	·812	·804	·799	·798	·807	·828	·843	·862	·880	·886	·870	·850	·830
16	·875	·860	·847	·852	·853	·857	·877	·909	·939	·954	·958	·942	·916	·887
17	·897	·883	·875	·881	·888	·907	·931	·952	·975	·987	·984	·964	·936	·904
18	·919	·905	·895	·898	·903	·906	·931	·955	·973	·975	·967	·944	·906	·877
19	·880	·867	·858	·858	·859	·871	·888	·910	·928	·944	·945	·924	·893	·865
20	·895	·896	·873	·875	·876	·892	·916	·948	·976	·999	30·002	·984	·958	·925
21	·956	·934	·925	·922	·926	·944	·966	·990	30·017	**30·027**	·023	30·010	·982	·952
22	·961	·945	·939	·939	·945	·949	·970	·992	·012	·027	·024	·007	·978	·949
23	·952	·938	·925	·924	·926	·934	·956	·976	29·996	·007	·000	29·978	·950	·925
24	·945	·923	·913	·911	·914	·917	·932	·945	·955	29·964	29·957	·936	·919	·887
25	·882	·855	·841	·834	·930	·840	·866	·887	·905	·925	·916	·894	·861	·835
26	·873	·856	·852	·846	·848	·867	·887	·911	·927	·952	·955	·932	·903	·875
27	·915	·900	·885	·887	·882	·892	·915	·939	·967	·988	·979	·956	·927	·902
28	·930	·917	·898	·899	·914	·910	·941	·983	30·000	30·002	·992	·970	·937	·902
29	·914	·894	·881	·886	·882	·892	·901	·920	29·926	29·940	·933	·910	·879	·851
30	·868	·848	·841	·838	·843	·855	·877	·887	·901	·919	·913	·893	·866	·846
31	·892	·874	·858	·847	·845	·864	·888	·914	·932	·949	·942	·914	·886	·863
Mean	29·843	29·828	29·818	29·816	29·821	29·827	29·848	29·870	29·886	**29·903**	29·900	29·881	29·852	29·824
Variation.	+·002	—·013	—·023	—·025	—·020	—·014	+·007	+·029	+·045	**+·062**	+·059	+·040	+·011	—·017
Mean in millibars.	1010·61	1010·10	1009·76	1009·69	1009·86	1010·07	1010·78	1011·52	1012·06	**1012·64**	1012·54	1011·89	1010·91	1009·97
Variation in millibars.	+·07	—·44	—·78	—·85	—·68	—·47	+·24	+·98	+1·52	**+2·10**	+2·00	+1·35	+·37	—·57

Readings refer to exact hours of local mean time.

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.

Hours. (B. M. T.)										Mean in		Maximum.		Minimum.		Date.
14	15	16	17	18	19	20	21	22	23	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·755	29·744	29·738	29·737	29·753	29·759	29·775	29·794	29·798	29·788	29·768	1008·07	8 58	29·814	3 17	29·734	1
·760	·755	·754	·756	·774	·778	·795	·809	·816	·811	·784	08·61	10 6	·836	3 6	·744	2
·758	·744	·743	·748	·753	·769	·783	·799	·798	·789	·778	08·41	9 6	·826	15 43	·736	3
·744	·724	·720	·722	·730	·745	·754	·766	·774	·771	·763	07·90	10 10	·824	16 6	·718	4
·735	·726	·725	·728	·752	·766	·788	·798	·796	·790	·760	07·80	9 50	·806	3 50	·722	5
·738	·716	·708	·709	·720	·739	·760	·761	·761	·761	·755	07·63	9 20	·810	15 40	·704	6
·720	·707	·705	·705	·716	·727	·745	·756	·769	·759	·739	07·08	9 47	·790	3 35	·704	7
·714	·710	·718	·720	·736	·756	·765	·784	·782	·775	**·735**	**06·95**	21 0	·786	3 35	·688	8
·745	·737	·733	·744	·759	·765	·777	·789	·800	·805	·765	07·97	10 25	·811	2 45	·723	9
·754	·744	·745	·746	·752	·761	·775	·788	·800	·799	·772	08·21	9 25	·813	14 40	·735	10
·736	·728	·726	·727	·742	·758	·764	·786	·797	·784	·755	07·63	22 6	·799	16 30	·723	11
·761	·744	·738	·742	·753	·776	·791	·815	·814	·805	·772	08·21	10 6	·823	3 50	·727	12
·793	·779	·771	·778	·790	·808	·825	·845	·845	·839	·796	09·01	21 16	·849	3 16	·721	13
·804	·793	·791	·790	·798	·816	·829	·845	·844	·836	·817	09·73	9 50	·859	2 40	·777	14
·816	·805	·807	·811	·826	·840	·858	·875	·873	·863	·836	10·37	9 5	·881	2 55	·797	15
·816	·810	·811	·826	·843	·871	·884	·893	·892	·880	**·850**	**10·84**	9 18	·896	3 50	·806	16
·803	·791	·789	·797	·804	·827	·840	·850	·845	·846	·833	10·27	8 42	·884	15 20	·768	17
·806	·782	·775	·782	·793	·824	·840	·848	·840	·840	·831	10·20	9 30	·902	15 45	·774	18
·777	·766	·768	·779	·799	·823	·831	·843	·840	·832	·822	09·90	9 6	·878	16 20	·762	19
·742	·728	·738	·757	·790	·798	·806	·811	·813	·797	·793	08·91	9 42	·852	14 55	·724	20
·735	·718	·712	·723	·736	·754	·768	·786	·789	·781	·769	08·10	8 20	·840	16 8	·708	21
·722	·705	·704	·704	·731	·756	·766	·774	·783	·786	·759	07·76	9 40	·830	15 28	·696	22
·726	·726	·734	·750	·766	·786	·804	·817	·815	·807	·780	08·47	9 21	·848	14 6	·722	23
·737	·721	·738	·760	·777	·791	·798	·829	·829	·798	·790	08·81	9 43	·851	15 10	·715	24
·719	·709	·729	·751	·763	·799	·809	·815	·809	·798	·775	08·31	8 50	·831	14 20	·707	25
·711	·732	·756	·763	·781	·789	·809	·815	·822	·811	·781	08·50	22 30	·829	14 45	·695	26
·723	·713	·704	·741	·750	·785	·815	·822	·797	·782	·771	08·17	9 45	·838	15 50	·702	27
·718	·705	·695	·711	·722	·755	·783	·810	·806	·792	·761	07·83	10 6	·815	15 50	·693	28
·694	**·683**	·711	·723	·778	·792	·798	·805	·810	·811	·766	08·00	9 12	·826	14 25	**·674**	29
·723	·698	·694	·726	·722	·773	·770	·775	·773	·761	·757	07·70	8 51	·818	16 30	·690	30
29·749	29·738	29·739	29·749	29·764	29·783	29·797	29·810	29·811	29·803	29·781	1008·50					Mean.
—·032	—·043	—·042	—·032	—·017	+·002	+·016	+·029	+·030	+·022							Variation.
1007·42	1007·05	1007·08	1007·42	1007·94	1008·57	1009·05	1009·49	1009·52	1009·25							Mean in millibars
—1·08	—1·45	—1·42	—1·08	—·56	+·07	+·55	+·99	+1·02	+·75							Variation in millibars

OCTOBER.

29·687	29·675	29·665	29·705	29·713	29·722	29·746	29·750	29·752	29·750	29·732	1006·85	9 0	29·798	16 6	29·660	1
·612	·593	·598	·608	·652	·653	·665	·666	·674	·673	·677	04·99	9 28	·756	14 53	·588	2
·583	·566	**·557**	·583	·632	·658	·678	·670	·663	·655	·643	03·83	9 0	·696	16 6	**·556**	3
·579	·567	·568	·586	·599	·622	·652	·664	·690	·650	**·628**	**03·33**	21 43	·694	15 40	·560	4
·661	·651	·654	·666	·680	·696	·715	·740	·744	·738	·686	05·29	21 25	·746	2 46	·624	5
·724	·711	·714	·714	·730	·747	·766	·778	·788	·794	·754	07·60	9 17	·810	15 25	·708	6
·751	·734	·735	·746	·762	·784	·810	·822	·816	·814	·796	09·01	8 35	·866	15 35	·732	7
·768	·753	·747	·766	·786	·807	·823	·833	·833	·825	·812	09·56	9 15	·879	15 55	·745	8
·797	·779	·778	·787	·804	·825	·849	·857	·859	·857	·834	10·31	9 6	·905	15 20	·773	9
·790	·780	·780	·782	·804	·823	·854	·862	·867	·858	·837	10·41	9 15	·901	14 30	·777	10
·775	·772	·774	·787	·793	·813	·836	·846	·842	·843	·827	10·07	8 55	·889	14 43	·771	11
·801	·792	·789	·796	·817	·839	·859	·872	·881	·870	·841	10·54	8 43	·905	16 10	·787	12
·792	·787	·785	·794	·803	·821	·839	·850	·841	·833	·831	10·20	9 10	·889	14 40	·783	13
·770	·757	·762	·773	·796	·816	·834	·836	·832	·829	·812	09·56	8 42	·868	15 6	·754	14
·816	·804	·806	·822	·838	·859	·874	·887	·887	·880	·840	10·51	21 35	·892	3 30	·794	15
·863	·851	·854	·865	·886	·897	·916	·917	·912	·906	·891	12·23	9 43	·966	1 45	·846	16
·874	·855	·854	·864	·880	·901	·924	·932	·939	·931	·913	12·98	9 15	·992	15 25	·852	17
·854	·836	·832	·838	·848	·875	·892	·904	·901	.894	·901	12·57	8 43	·980	15 43	·830	18
·841	·831	·832	·841	·856	·875	·894	·906	·911	.903	·883	11·96	9 25	·948	15 15	·828	19
·902	·891	·888	·896	·910	·925	·948	·964	·966	·963	·928	13·48	9 25	30·004	15 50	·872	20
·933	·920	·917	·917	·924	·940	·960	·973	·971	·966	·958	14·50	9 0	**·028**	15 43	·916	21
·929	·908	·904	·911	·920	·941	·965	·972	·970	·961	**·959**	**14·53**	9 0	·028	15 50	·902	22
·902	·891	·892	·899	·916	·933	·952	·962	·962	·955	·944	14·03	9 0	·008	15 40	·890	23
·866	·850	·847	·852	·859	·874	·889	·895	·897	·896	·906	12·74	9 5	29·967	16 10	·845	24
·812	·805	·812	·821	·831	·844	·870	·885	·889	·883	·863	11·28	9 0	·926	15 35	·802	25
·853	·843	·839	·861	·877	·898	·923	·930	·927	·927	·890	12·20	9 18	·957	16 0	·839	26
·876	·872	·879	·896	·917	·927	·945	·965	·957	·948	·921	13·24	9 10	·991	14 35	·867	27
·879	·866	·873	·887	·896	·909	·936	·937	·934	·925	·927	13·45	9 0	30·002	14 55	·862	28
·820	·812	·810	·828	·846	·871	·896	·898	·889	·883	·882	11·93	9 6	29·942	15 35	·802	29
·830	·818	·813	·828	·840	·875	·894	·906	·910	·902	·867	11·42	9 25	·921	15 30	·807	30
·835	·828	·828	·837	·849	·874	·902	·915	·923	·919	·882	11·93	8 53	950	15 6	·826	31
29·799	29·787	29.787	29·799	29·815	29·834	29·855	29·864	29·865	29·859	29·841	1010·54					Mean.
—·042	—·054	—·054	—·042	—·026	—·007	+·014	+·023	+·024	+·018							Variation.
1009·11	1008·71	1008·71	1009·11	1009·66	1010·31	1011·01	1011·32	1011·35	1011·14							Mean in millibars
—1·43	—1·83	—1·83	—1·43	—·88	—·23	+·47	+·78	+·81	+·60							Variation in millibars

BAROMETRIC PRESSURE, 1937.

(Readings refer to exact hours of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours. (B. M. T.)													
	0	1	2	3	4	5	6	7	8	9	10	11	12	13
1	29·894	29·877	29·859	29·855	29·853	29·863	29·879	29·901	29·931	29·942	29·931	29·907	29·879	29·851
2	·879	·866	·848	·848	·842	·854	·871	·894	·917	·934	·930	·911	·874	·840
3	·870	·856	·842	·835	·836	·845	·870	·896	·918	·938	·934	·917	·890	·867
4	·873	·862	·858	·849	·850	·873	·894	·913	·935	·956	·953	·933	·911	·884
5	·888	·875	·864	·862	·866	·877	·894	·903	·927	·932	·924	·904	·872	·837
6	·861	·851	·841	·835	·838	·849	·872	·889	·912	·923	·917	·902	·881	·854
7	·924	·921	·907	·897	·894	·903	·915	·940	·962	·977	·967	·948	·916	·879
8	·889	·875	·861	·858	·858	·865	·871	·887	·902	·918	·914	·892	·861	·831
9	·858	·845	·828	·831	·873	·843	·862	·880	·903	·912	·896	·878	·848	·814
10	·835	·830	·828	·825	·827	·840	·865	·894	·919	·939	·933	·917	·889	·853
11	·868	·865	·849	·854	·854	·879	·905	·931	·951	·968	·959	·935	·907	·879
12	·914	·899	·885	·883	·880	·894	·922	.947	·967	·982	·983	·966	·933	·901
13	·913	·896	·881	·880	·878	·897	·915	.934	·954	·968	·961	·938	·898	·872
14	·894	·881	·867	·869	·866	·878	·902	·920	·936	·948	·933	·916	·880	·847
15	·852	·836	·820	·818	·824	·838	·855	·874	·917	·922	·919	·893	·854	·827
16	·828	·818	·796	·795	·802	·818	·835	·860	·880	·899	·893	·877	·846	·817
17	·821	·811	·802	·796	·794	·809	·835	·865	·901	·913	·904	·880	·843	·810
18	·799	·790	·784	·774	·775	·791	·813	·841	·871	·893	·882	·859	·824	·791
19	·794	·777	·768	·761	·754	·763	·782	·802	·836	·843	·834	·812	·780	·748
20	·771	·765	·754	·754	·757	·760	·738	·818	·839	·858	·850	·830	·798	·771
21	·834	·830	·818	·813	·803	·812	·836	·853	·876	·890	·890	·876	·850	·827
22	·852	·844	·823	·821	·819	·831	·844	·866	·902	·921	·920	·896	·860	·822
23	·836	·821	·811	·804	·809	·817	·835	·853	·871	·895	·904	·890	·857	·826
24	·851	·834	·824	·823	·827	·847	·868	·882	·914	·932	·929	·906	·875	·851
25	·903	·890	·871	·868	·881	·888	·905	·932	·955	·969	·973	·951	·919	·891
26	·929	·916	·895	·893	·899	·903	·931	·950	·969	·987	·972	·944	·910	·878
27	·910	·895	·881	·873	·875	·876	·895	·913	·928	·942	·936	·920	·875	·845
28	·893	·881	·868	·854	·854	·859	·879	·899	·923	·936	·927	·902	·874	·847
29	·859	·849	·835	·825	·818	·825	·841	·856	·883	·890	·881	·867	·839	·813
30	·851	·835	·825	·823	·820	·835	·862	·883	·898	·904	·899	·886	·851	·817
Mean .	29·865	29·853	29·840	29·836	29·836	29·848	29·868	29·889	29·913	29·928	29·922	29·902	29·870	29·840
Variation.	+·005	—·007	—·020	—·024	—·024	—·012	+·008	+·029	+·053	+·068	+·062	+·042	+·010	—·020
Mean in millibars.	1011·35	1010·94	1010·51	1010·37	1010·37	1010·78	1011·45	1012·16	1012·98	1013·48	1013·28	1012·61	1011·52	1010·51
Variation in millibars.	+·17	—·24	—·67	—·81	—·81	—·40	+·27	+·98	+1·80	+2·30	+2·10	+1·43	+·34	—·67

DECEMBER.

1	29·834	29·827	29·815	29·809	29·806	29·814	29·831	29·855	29·878	29·887	29·890	29·883	29·851	29·814
2	·844	·840	·832	·826	·828	·836	·864	·882	·906	·928	·934	·918	·887	·860
3	·903	·899	·887	·891	·897	·916	·936	·959	·975	·991	·981	·966	·930	·902
4	·920	·915	·909	·910	·914	·927	·954	·973	30·005	30·024	30·019	30·004	·975	·945
5	·974	·966	·947	·951	·953	·966	·992	30·024	·055	·067	·070	·047	30·015	·985
6	30·008	30·002	·993	·991	·997	30·009	30·018	·044	·068	·086	·085	·066	·021	·989
7	29·973	29·965	·955	·939	·943	29·961	29·985	·007	·036	·048	·037	·016	29·981	·948
8	·941	·932	·922	·923	·919	·927	·941	29·961	29·989	·001	29·999	29·984	·949	·921
9	·931	·925	·912	·906	·905	·919	·941	·958	·979	29·991	·983	·955	·925	·889
10	·889	·880	·867	·866	·865	·883	·900	·930	·960	·969	·965	·942	·907	·883
11	·940	·935	·926	·916	·918	·928	·944	·966	30·004	30·022	30·011	·992	·958	·929
12	·911	·906	·890	·890	·888	·893	·904	·927	29·938	29·952	29·953	·929	·888	·860
13	·876	·859	·850	·840	·840	·843	·860	·885	·905	·924	·916	·898	·863	·835
14	·890	·875	·863	·851	·858	·865	·889	·905	·938	·948	·946	·931	·899	·891
15	·948	·938	·923	·918	·924	·937	·959	·983	33·009	30·029	30·035	30·019	·984	·957
16	·996	·986	·973	·965	·965	·972	·986	30·010	·024	·044	·037	·014	·982	·968
17	·978	·959	·947	·925	·930	·931	·938	29·942	29·980	29·996	·004	29·990	·956	·916
18	·942	·937	·908	·902	·896	·903	·908	·928	·954	·972	29·968	·946	·918	·884
19	·916	·910	·898	·884	·890	·897	·917	·937	·964	·974	·973	·956	·918	·878
20	·874	·859	·846	·838	·831	·829	·845	·863	·879	·898	·899	·890	·858	·841
21	·872	·875	·867	·858	·861	·872	·892	·912	·937	·946	·945	·924	·893	·859
22	·888	·884	·867	·865	·868	·871	·879	·889	·924	·940	·933	·909	·875	·849
23	·840	·830	·815	·809	·810	·815	·829	·845	·873	·886	·888	·863	·827	·805
24	·831	·829	·803	·791	·796	·822	·843	·865	·898	·913	·916	·898	·860	·837
25	·857	·852	·840	·838	·839	·850	·863	·891	·929	·945	·943	·922	·884	·853
26	·878	·865	·844	·832	·838	·850	·862	·880	·906	·927	·924	·908	·878	·844
27	·854	·851	·835	·820	·823	·829	·842	·858	·887	·902	·895	·877	·845	·811
28	·844	·840	·826	·818	·815	·820	·841	·867	·883	·896	·892	·884	·851	·824
29	·863	·857	·850	·846	·847	·854	·882	·908	·938	·949	·938	·931	·901	·882
30	·914	·902	·881	·875	·872	·881	·895	·927	·946	·962	·960	·952	·934	·912
31	·928	·921	·906	·887	·887	·905	·919	·947	·977	·995	·997	·987	·967	·943
Mean .	29·905	29·897	29·884	29·877	29·878	29·888	29·905	29·927	29·953	29·968	29·966	29·948	29·915	29·888
Variation.	·000	—·008	—·021	—·028	—·027	—·017	·000	+·022	+·048	+·063	+·061	+·043	+·010	—·017
Mean in millibars.	1012·71	1012·44	1012·00	1011·76	1011·79	1012·13	1012·71	1013·45	1014·33	1014·84	1014·77	1014·16	1013·05	1012·13
Variation in millibars.	·00	—·27	—·71	—·95	—·92	—·58	·00	+·74	+1·62	+2·13	+2·06	+1·45	+·34	—·58

(Readings refer to exact hours of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours. (B. M. T.)										Mean in.		Maximum.		Minimum.		Date.
14	15	16	17	18	19	20	21	22	23	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·826	29·815	29·814	29·822	29·834	29·860	29·893	29·902	29·910	29·897	29·875	1011·69	9 0	29·944	15 32	29·808	1
·811	·804	·806	·818	·828	·851	·884	·890	·890	·881	·865	11·35	9 20	·949	14 43	·802	2
·845	·838	·834	·842	·852	·865	·887	·889	·893	·883	·873	11·62	9 0	·940	15 25	·830	3
·853	·842	·837	·843	·853	·878	·891	·899	·902	·895	·885	12·03	9 16	·965	15 43	·835	4
·807	·791	·804	·816	·840	·866	·881	·886	·880	·869	·869	11·48	9 18	·938	15 0	·790	5
·825	·825	·825	·844	·868	·893	·915	·931	·941	·940	·876	11·72	21 47	·945	14 37	·821	6
·855	·841	·834	·845	·859	·885	·907	·912	·912	·899	·904	12·68	8 50	·979	15 30	·831	7
·811	·794	·799	·810	·826	·851	·874	·879	·880	·873	·862	11·25	9 13	·920	15 0	·794	8
·787	·775	·777	·786	·801	·820	·843	·860	·854	·848	·841	10·54	8 25	·915	14 43	·773	9
·826	·816	·814	·822	·838	·866	·883	·891	·891	·883	·863	11·28	9 15	·941	14 50	·814	10
·863	·854	·854	·861	·874	·892	·919	·933	·939	·928	·897	12·44	9 0	·969	1 50	·847	11
·874	·859	·857	·866	·885	·917	·925	·929	·929	·922	**·913**	**12·98**	9 22	·985	15 25	·855	12
·846	·838	·840	·846	·868	·897	·911	·915	·913	·902	·898	12·47	9 0	·969	14 50	·835	13
·822	·807	·800	·806	·821	·846	·869	·876	·878	·867	·872	11·59	9 0	·949	15 43	·799	14
·799	·783	·784	·791	·797	·820	·836	·851	·850	·842	·842	10·58	9 10	·925	15 10	·781	15
·795	·778	·778	·780	·793	·818	·831	·839	·841	·822	·827	10·07	9 0	·899	15 30	·773	16
·782	·768	·771	·778	·787	·801	·813	·816	·820	·811	·822	09·90	9 32	·919	15 28	·763	17
·761	·747	·747	·759	·770	·788	·807	·819	·815	·813	·805	09·32	9 0	·893	15 35	·741	18
·726	**·721**	·726	·735	·741	·759	·775	·786	·789	·781	**·775**	**08·31**	8 43	·844	14 43	**·720**	19
·753	·745	·753	·766	·786	·809	·827	·842	·848	·839	·795	08·98	9 6	·860	14 43	·744	20
·802	·795	·791	·800	·824	·851	·870	·874	·878	·864	·840	10·51	9 0	·892	15 15	·791	21
·794	·781	·783	·793	·809	·830	·842	·853	·855	·844	·842	10·58	8 45	·924	15 6	·780	22
·803	·788	·786	·797	·813	·841	·861	·873	·876	·868	·839	10·47	10 10	·969	15 43	·785	23
·836	·829	·832	·850	·866	·887	·916	·922	·922	·917	·873	11·62	9 20	·936	3 18	·820	24
·867	·860	·863	·876	·893	·917	·941	·949	·947	·943	·911	12·91	9 30	·975	15 12	·857	25
·851	·847	·845	·856	·877	·893	·907	·917	·923	·918	·909	12·84	8 55	**·989**	15 25	·843	26
·823	·823	·819	·829	·854	·877	·896	·908	·910	·904	·884	12·06	9 30	·944	15 45	·816	27
·825	·820	·820	·826	·841	·865	·882	·889	·887	·883	·872	11·59	9 10	·943	15 30	·813	28
·788	·779	·780	·789	·804	·842	·858	·870	·874	·867	·839	10·47	8 22	·892	14 43	·778	29
·795	·783	·785	·794	·805	·825	·835	·849	·853	·851	·840	10·51	9 6	·907	14 50	·781	30
29·815	**29·805**	29·805	29·815	29·830	29·854	29·873	29·882	29·883	29·875	29·860	1011·18					Mean.
—·045	**—·055**	—·055	—·045	—·030	—·006	+·013	+·022	+·023	+·015							Variation.
1009·66	**1009·32**	1009·32	1009·66	1010·17	1010·98	1011·62	1011·93	1011·96	1011·69							Mean in millibars.
—1·52	**—1·86**	—1·86	—1·52	—1·01	—·20	+·44	+·75	+·78	+·51							Variation in millibars.

DECEMBER.

29·795	29·789	29·790	29·799	29·812	29·836	29·853	29·863	29·865	29·855	29·835	1010·34	9 48	29·896	14 43	29·788	1
·838	·830	·833	·837	·854	·873	·892	·912	·918	·907	·870	11·52	9 35	·942	3 0	·826	2
·874	·869	·871	·878	·896	·918	·923	·929	·930	·925	·919	13·18	9 30	·997	15 30	·867	3
·919	·920	·919	·926	·952	·973	·989	·998	·997	·986	·957	14·47	8 47	30·025	2 6	·907	4
·963	·961	·962	·968	·983	30·005	30·017	30·029	30·033	30·021	·998	15·86	9 40	·073	2 0	·947	5
·957	·948	·949	·954	·962	29·976	29·988	29·997	29·992	29·986	**30·004**	**16·06**	9 15	·088	15 0	·948	6
·921	·909	·909	·919	·929	·945	·959	·964	·959	·953	29·965	14·74	9 6	·053	14 43	·907	7
·899	·898	·897	·903	·917	·929	·949	·961	·954	·941	·940	13·89	9 12	·065	14 35	·895	8
·868	·861	·859	·867	·883	·903	·924	·932	·924	·908	·919	13·18	8 43	29·993	15 43	·857	9
·866	·865	·868	·879	·892	·920	·938	·955	·962	·950	·908	12·81	8 35	·970	3 16	·862	10
·911	·898	·897	·899	·908	·924	·938	·952	·944	·930	·941	13·92	9 15	30·024	15 25	·894	11
·840	·828	·832	·841	·860	·878	·892	·900	·897	·887	·891	12·23	9 16	29·962	15 0	·828	12
·828	·827	·832	·840	·852	·880	·899	·905	·903	·898	·869	11·48	9 6	·926	13 50	·824	13
·881	·878	·880	·891	·907	·929	·951	·965	·969	·963	·907	12·78	21 10	·973	3 23	·845	14
·942	·939	·936	·941	·971	·996	30·015	30·024	30·016	30·009	·973	15·01	9 6	30·039	2 43	·915	15
·946	·931	·923	·930	·932	·947	29·962	29·986	29·988	29·983	·977	15·15	9 0	·044	15 43	**·922**	16
·884	·866	·852	·875	·884	·908	·933	·950	·955	·952	·935	13·72	10 20	·010	15 50	·850	17
·864	·852	·853	·854	·868	·884	·907	·924	·924	·922	**·909**	12·84	9 0	29·972	15 20	·850	18
·853	·838	·840	·849	·855	·884	·894	·902	·905	·888	·901	12·57	8 40	·978	15 0	·838	19
·821	·823	·824	·835	·850	·870	·886	·890	·886	·882	·859	11·14	9 30	·903	14 35	819	20
·841	·831	·836	·847	·871	·898	·910	·919	·916	·902	·887	12·10	9 40	·951	15 10	·827	21
·820	·806	·804	·814	·829	·853	·866	·874	·865	·845	·868	11·45	8 45	·945	15 18	·801	22
·786	·777	·782	·789	·810	·837	·856	·859	·857	·843	**·830**	**10·17**	9 15	·893	14 40	·775	23
·807	·794	·793	·802	·819	·837	·857	·869	·872	·859	·842	10·58	9 30	·925	15 20	·789	[illegible]
·824	·813	·807	·826	·843	·866	·877	·888	·890	·886	·868	11·45	9 25	·947	16 0	·807	25
·823	·811	·811	·817	·825	·846	·860	·867	·868	·864	·859	11·14	9 0	·927	15 0	·811	26
·787	·781	**·776**	·789	·803	·829	·848	·860	·858	·855	·838	10·44	9 0	·902	15 45	**·774**	27
·805	·794	·796	·808	·825	·847	·866	·875	·875	·870	·844	10·65	8 43	·902	14 43	·792	[illegible]
·865	·857	·859	·871	·884	·907	·929	·931	·929	·922	·892	12·27	8 50	·952	3 6	·840	29
·896	·889	·886	·894	·900	·917	·928	·939	·939	·935	·914	13·02	8 50	·964	3 50	·870	30
·916	·901	·895	·910	·934	·949	·978	·987	·981	·985	·942	13·96	9 50	·998	3 0	·886	31
29·866	29·858	**29·857**	29·866	29·881	29·902	29·919	29·929	29·928	29·920	29·905	1012·21					Mean.
—·039	—·047	**—·048**	—·039	—·024	—·003	+·014	+·024	+·023	+·015							Variation.
1011·38	1011·11	1011·08	1011·38	1011·89	1012·61	1013·18	1013·51	1013·48	1013·21							Mean in millibars.
—1·33	—1·60	**—1·63**	—1·33	—·82	—·10	+·47	+·80	+·77	+·50							Variation in millibars.

RAINFALL (IN INCHES), 1937.

(Totals for sixty minutes from full hour to full hour of local mean time.)

JUNE.†

(FROM PLUVIOGRAPH RECORDS.)

Date.	Hours. (B. M. T.)													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
12	..	0·05	0·39	..	..	0·01	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	0·01	0·03	0·04	0·02	..	..	0·02	..	..	..	..	..	..	..
15	0·09	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	0·03	..	..	..	0·01	..	..	..	..	..
17	..	..	..	0·01	0·03	..	..	..	0·55	0·07	..	0·55	0·01	..
18	..	0·02	0·06	0·01	0·33	0·23	0·08	..	..	0·01	0·07	0·38	..	..
19	0·01	..	..	0·03	0·01	0·04	0·24	0·01	..	0·01	0·03	0·03	0·02	..
20	..	..	0·04	0·02	0·14	1·38	0·61	0·83	0·32	0·17	0·14	0·17	0·04	0·12
21	..	..	..	0·01	..	..	..	0·04	0·21	..	..	0·20	0·06	0·02
22	0·31	0·17	0·03	1·29	0·08	..	0·01	..	0·28	0·12	0·08	0·03	0·02	0·04
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	0·06	..	..	..	..	0·10	0·06	0·23	0·02	0·01
25	..	0·03	0·26	0·01	..	0·01	..	0·03	..	0·03	0·07	..	..	..
26	..	..	0·01	..	..	..	0·07	..	..	..	0·01	..	..	0·29
27	0·03	0·01	0·05	..	..	..	0·01	0·35	..	..	..	..	..	..
28	..	..	..	..	..	0·06	..	..	0·01	..	..	..	..	0·03
29	..	..	..	..	0·05	..	0·17	0·03	..	..	..	..	..	..
30	..	..	..	..	..	0·02	..	..	..	..	..	..	..	..
Total.	0·45	0·31	0·88	1·40	0·73	1·75	1·21	1·29	1·38	0·51	0·46	1·59	0·17	0·51

†No rainfall occurred on days not included in this table.

(Totals for sixty minutes from full hour to full hour of local mean time.)

JUNE†. (FROM PLUVIOGRAPH RECORDS.)

Hours (B. M. T.)										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			H. to H.		
..	..	..	..	..	1·63	0·42	0·01	..	..	2·11	**1·63**	19 20	2·43	12
..	..	..	..	0·01	..	..	..	..	..	0·01	0·01	18 19	0·01	13
..	..	..	..	..	..	..	..	..	..	0·12	0·04	2 3	0·12	14
..	..	..	..	..	..	..	..	..	..	0·09	0·09	0 1	0·09	15
..	..	..	0·19	0·37	0·02	..	..	..	..	0·62	0·37	18 19	0·59	16
..	..	..	..	..	..	..	..	..	..	1·22	0·55	8 9	1·22	17
0·07	0·55	0·56	0.27	0·21	0·04	0·01	..	..	0·35	3·25	0·56	16 17	3·04	18
..	..	..	0·02	..	..	..	..	..	0·08	0·53	0·24	6 7	0·51	19
0·15	0·08	0·02	0·03	..	..	..	..	..	..	**4·26**	1·38	5 6	**3·95**	20
0·04	0·19	..	0·06	..	..	0·01	0·24	..	0·17	1·25	0·24	21 22	1·17	21
..	..	..	..	..	..	..	..	..	..	2·46	1·29	3 4	2·23	22
0·02	..	0·01	..	..	..	..	..	..	..	0·03	0·02	14 15	0·04	23
0·13	0·20	0·10	..	0·01	..	0·09	0·01	..	..	1·02	0·23	11 12	0·86	24
..	..	..	..	0·01	0·01	..	..	..	..	0·46	0·26	2 3	0·40	25
..	0·02	0·23	0·13	..	..	..	..	..	..	0·76	0·29	13 14	0·72	26
..	..	..	..	..	0·05	..	..	..	0·01	0·51	0·35	7 8	0.43	27
0·02	..	0·05	0·03	0·01	..	0·02	..	..	..	0·23	0·06	5 6	0·24	28
..	..	..	..	..	..	0·03	0·01	..	..	0·29	0·17	6 7	0·25	29
..	0·04	0·04	..	0·08	0·24	0·07	..	..	..	0·49	0·24	19 20	0·43	30
0·43	1·08	1·01	0·73	0·70	**1·99**	0·25	0·27	..	0·61	19·71			18·73	Total.

† No rainfall occurred on days not included in this table.

* Adopted as the standard instrument in the Observatory since 1845.

RAINFALL (IN INCHES), 1937.

(Totals for sixty minutes from full hour to full hour of local mean time.)

JULY. (FROM PLUVIOGRAPH RECORDS.

Date.	Hours. (B. M. T.)												
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	0·01	..	..	..	..	0·02	..	..	..	0·12	..	..	..	0·02
2	0·15	..	..	..	..	0·04	..	..	..	0·01	0·02	0·07	..	0·08
3	..	..	..	..	0·05	..	..	..	..	..	..	..	..	0·06
4	..	..	..	..	..	..	..	0·01	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	0·10	..	0·15
6	..	..	..	..	0·05	0·02	..	..	..	..	0·10	.	..	..
7	..	..	..	..	..	..	..	0·01	..	..	..	..	..	..
8	..	0·01	..	..	..	..	..	..	..	..	..	..	0·02	..
9	..	..	0·06	0·41	0·23	0·15	0·04	0·31	0·11	0·16	0·04	0·03	0.02	0·01
10	..	..	..	..	..	0 36	0·39	0·70	0·62	1·13	0·58	0·40	0·41	0·06
11	0·10	0·02	..	0.04	..	..	..	..	0·01	..	..	..	..	0·30
12	..	0·05	0·01	0·01	..	0·12	0·23	..	0·33	..	..	0·18	0·04	0·06
13	..	..	0·07	0·01	0·06	0·12	0.12	0·18	0·23	0·37	0·11	0·02	0.13	..
14	0·12	0·72	0·04	..	0·11	0·03	0·17	..	..	..	..	0·10	..	..
15	..	..	..	..	..	..	0·02	..	..	0·01	..	..	..	..
16	..	..	0·01	0·12	..	..	..	..	0·01	..	0·17	..	..	..
17	..	..	..	..	..	..	..	..	0·01	..	..	..	0·02	..
18	..	0·08	..	..	0·02	..	..	0·01	..	..	..	..	..	..
19	0·11	..	..	..	..	..	0·19	0·28	..	0·02	..	..	0·02	..
20	0·02	..	..	0·01	0·01	0·01	0·05	..	..	..	..	0·11	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	0·23	0·43	0·39	0·57	0·15	0·79	0·21	0·28	0·08	0·24	0·05	0·02	0·33	0·12
23	0.03	0.06	0.02	..	0·37	0·03	..	0·07	0·01	..	..	..	..	..
24	..	0·18	0·03	..	..	0·15	..	..	..	..	..	..	..	..
25	..	..	0.06	0·02	..	..	..	..	0·01	0·02	0·04	..	..	0·01
26	0·01	..	..	0·13	0·01	..	0·08	0·11	..	..	..	0.09	..	..
27	0·01	0·01	0·01	0·08	0·01	..	..	0·04	0·02	..	0·06	0·02	0·10	0·01
28	0·03	0·02	..	..	..	0·02	..	0.45	0·19	0·12	0·12	0·06	..	0·03
29	0·01	..	0·01	..	..	..	..	0·02	0·03	0·01	0·23	..	..	..
30	..	0·04	0·32	0·04	0·01	..	..	0·12	..	..	..	0·03	0·02	..
31	0·06	..	..	..	..	0·01	..	..	..	0·06	..	..	..	..
Total.	0·89	1·62	1·03	1·44	1·08	1·87	1·50	2·59	1·66	2·27	1·52	1·23	1·11	0·91

AUGUST.

1	0·10	..	..	..	..	..	0·10	..	..	..	..	..	..	0·02
2	..	0·01	..	..	..	..	..	0·02	0·01	0·09	0·04	0·06	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	0·01	..	..	0·01	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	0·01	..	..
6	..	..	..	..	0·08	0·13	0·02	0·02	0·06	..	..	..	0·02	..
7	..	..	..	..	0·02	..	..	0·08	..	..	..	..	..	..
8	..	..	..	..	..	..	0·02	0·01	..	..	0·03	..	..	..
9	..	..	..	..	..	..	..	0·02	..	..	0·02	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	0·16	0·02	0·01	0·05	0·16	0·01
12	..	0·08	0·02	..	..	..	0·03	..	..	..	..	..	..	0·10
13	..	..	..	..	..	..	..	0·01	..	..	0·06	..	..	..
14	..	..	..	0·01	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	0·03	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	..	..	..	..	..	0·04	0·26	..	..	..	..	..	..
19	..	..	..	..	..	..	0·04	0·52	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	0·02	0·02	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	0·05	..	..	..	..	0·01	0·02	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	0·01	..	..	..	..	..	..	..	..	..	0·01	..	0·01	..
27	0·19	..	..	..	0·01	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	0·01	..	..	..	0·02
29	..	..	..	..	..	..	..	0·26	0·32	0·02	..	..	..	..
30	..	0·01	..	..	..	..	..	..	..	..	..	..	..	..
31	0·11	0·04	..	..	..	..	0·13	..	..	..	..	..	..	0·03
Total.	0·41	0·14	0·02	0·06	0·11	0·13	0·38	1·21	0·56	0·18	0·20	0·12	0·22	0·18

(Totals for sixty minutes from full hour to full hour of local mean time.)

JULY. (FROM PLUVIOGRAPH RECORDS.)

Hours. (B. M. T.) 14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24	Daily Total.	Maximum fall in one hour.	Time of occurrence. H. to H.	Daily* total by Newman.	Date.
0·02	..	..	..	..	..	..	..	..	..	0·19	0·12	9 10	0·17	1
..	..	0·01	..	0·01	..	..	..	..	..	0·39	0·15	0 1	0·37	2
..	0·01	0·02	..	..	..	..	..	..	..	0·14	0·06	13 14	0·13	3
..	0·03	0·01	..	..	..	..	0·10	..	0·02	0·17	0·10	21 22	0·16	4
..	..	..	..	..	..	0·07	0·02	..	..	0·34	0·15	13 14	0·32	5
..	..	..	..	..	..	..	..	..	..	0·17	0·10	10 11	0·16	6
0·38	0·07	0·14	0·09	0·02	0·01	..	..	..	..	0·72	0·38	14 15	0·65	7
..	0·37	0·29	0·14	0·01	..	..	..	0·12	0·08	1·04	0·37	15 16	0·89	8
..	..	..	0·01	0·06	..	..	0·03	..	..	1·67	0·41	3 4	1·53	9
0·09	0·03	0·01	..	..	0·09	..	0·02	0·14	0·31	**5·34**	**1·13**	9 10	**4·77**	10
0·19	0·23	0·75	0·25	0·09	0·06	0·01	0·01	0·01	..	2·17	0·75	16 17	1·81	11
..	0·43	0·17	0·13	0·06	0·55	0·10	0·18	0·14	0·01	2·80	0·55	19 20	2·50	12
0·33	..	0·37	0·10	0·06	0·01	0·02	..	0·17	0·61	3·09	0·61	23 24	2·65	13
..	..	..	0·05	0·23	0·13	..	..	..	..	1·70	0·72	1 2	1·49	14
0·04	0·01	..	..	..	0·02	0·01	..	..	..	0·11	0·04	14 15	0·10	15
0·01	..	..	..	..	0·04	0·01	0·21	0·02	..	0·60	0·21	21 22	0·52	16
..	..	..	..	..	..	0·13	..	..	..	0·16	0·13	20 21	0·18	17
..	..	..	..	..	..	..	..	..	0·01	0·12	0·08	1 2	0·09	18
..	0·23	0·06	..	..	..	..	0·02	..	..	0·93	0·28	7 8	0·81	19
..	0·09	0 02	0·01	0·12	..	..	..	..	..	0·45	0·12	18 19	0·38	20
..	..	0·01	..	0·02	0·05	0·01	..	0·08	0·13	0·30	0·13	23 24	0·28	21
0·16	0·14	0·18	0·01	..	0·01	0·23	0·08	..	0·01	5·01	0·79	5 6	4·05	22
0· 8	0·02	0·19	0·17	0·04	..	..	..	0·04	0·14	1·37	0·37	4 5	1·15	23
..	..	0·13	..	..	0·01	0·12	0·19	0·06	..	0·87	0·19	21 22	0·75	24
..	0·01	0·10	..	..	0·15	0·03	..	..	0·10	0·55	0·15	19 20	0·44	25
0·01	..	..	0·01	..	..	..	..	..	0·01	0·46	0·13	3 4	0·41	26
0·02	0·12	..	..	0·14	0·12	0·04	..	..	0·14	0·95	0·14	18 19	0·85	27
..	..	..	..	..	0·04	0·03	0·10	..	..	1·21	0·45	7 8	1·08	28
0·12	0·03	0·06	0·08	0·01	0·06	0·03	..	..	0·02	0·72	0·23	10 11	0·66	29
..	0·03	0·02	0·02	..	..	0·01	0·02	..	..	0·68	0·32	2 3	0·62	30
0·02	..	..	..	..	0·03	0·03	..	..	0·01	0·22	0·06	0 1	0·22	31
1·87	1·95	2·54	1·07	0·87	1·38	0·88	0·98	0·78	1·60	34·64			30·19	Total.

AUGUST.

..	..	..	..	..	..	..	..	..	..	0·22	0·10	0 1	0·20	1
..	..	..	..	..	..	..	..	..	..	0·23	0·09	9 10	0·20	2
..	..	..	0·01	..	..	..	..	..	..	0·01	0·01	17 18	0·01	3
..	..	..	..	..	..	..	..	..	..	0·02	0·01	7 8	0·02	4
..	..	..	..	..	..	..	..	..	..	0·01	0·01	11 12	0·01	5
..	0·02	..	..	..	..	..	..	..	..	0·35	0·13	5 6	0·33	6
0·06	..	..	..	0·10	..	..	..	..	..	0·26	0·10	18 19	0·23	7
..	..	..	..	..	..	..	..	..	..	0·06	0·03	10 11	0·07	8
0·07	0·03	..	..	0·01	..	..	..	..	..	0·15	0·07	14 15	0·15	9
..	..	..	..	..	..	..	..	..	0·01	0·01	0·01	23 24	0·01	10
..	..	..	0·11	..	..	..	..	..	..	0·52	0·16	8 9	0·46	11
0·04	0·06	..	..	0·22	0·02	0·01	0·01	..	..	0·59	0·22	18 19	0·55	12
..	0·12	..	..	..	..	..	0·48	0·14	0·01	0·82	0·48	21 22	0·74	13
..	..	..	0·01	..	..	..	..	..	..	0·02	0·01	3 4	0·02	14
..	..	..	0·02	..	0·03	..	..	..	..	0·05	0·03	19 20	0·05	15
..	..	..	..	..	..	..	..	..	..	0·03	0·03	12 13	0·03	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	17
..	..	..	..	..	..	..	..	..	..	0·30	0·26	7 8	0·29	18
..	..	..	..	..	..	..	..	..	..	0·56	0·52	7 8	0·53	19
..	..	..	..	..	..	..	..	..	..	0·04	0·02	9 10	0·06	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31
..	..	..	..	..	..	0·03	..	..	..	0·03	0·03	20 21	0·02	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	23
0·01	..	..	..	..	..	..	..	..	..	0·09	0·05	3 4	0·09	24
0·01	..	..	..	..	..	..	..	..	..	0·01	0·01	14 15	0·01	25
..	..	..	..	..	..	..	..	..	..	0·03	0·01	0 1	0·03	26
..	..	..	..	0·01	0·01	..	..	..	..	0·22	0·19	0 1	0·21	27
..	..	..	..	..	..	..	..	..	..	0·03	0·02	13 14	0·04	28
..	..	..	..	..	..	..	..	0·08	..	0·68	0·32	8 9	0·62	29
..	..	..	..	..	0·01	..	..	..	..	0·02	0·01	1 2	0·03	30
..	..	..	..	..	..	..	..	..	..	0·31	0·13	6 7	0·30	31
0·19	0·23	..	0·15	0·34	0·07	0·04	0·49	0·22	0·02	5·67			5·31	Total.

* Adopted as the standard instrument in the Observatory since 1845.

RAINFALL (IN INCHES), 1937.

(Totals for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. †

(FROM PLUVIOGRAPH RECORDS.)

Date.	Hours (B. M. T.).													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	..	..	..	..	..	0·09	0·01	..	..	..	..	..	..	0·03
2	..	..	..	..	..	..	..	..	..	0·09	0·04	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	0·04	0·02	..	..	..	..
7	..	..	..	..	..	..	..	..	..	0·01	..	..	..	..
8	..	..	0·02	..	..	..	..	..	0·03	0·04	..	0·05	0·02	0·01
9	..	..	0·18	0·08	0·54	0·01	0·09	..	..	..	0·03	..	0·01	..
10	..	0·02	0·02	..	0·01	0·01	0·03	..	..	..	..	0·01	0·05	0·01
11	0·01	..	0·37	..	0·08	..	0·07	0·33	1·06	0·37	0·85	0·01	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	0·06	0·01	0·02	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	0·02	0·04	..	..	..	..
16	..	..	..	0·02	..	..	0·05	0·02	..	..	0·23	..	..	..
17	..	..	..	..	..	0·04	0·24	0·02	..	..	..	..	..	..
18	..	..	..	..	..	..	..	0·06	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	0·02	0·04	..	..	2·37	1·14	0·54	0·26	0·17	0·03	..	..
22	..	..	..	..	..	0·04	0·26	0·70	0·12	0·12	0·04	..	..	..
23	..	..	..	..	0·03	0·47	0·06	0·16	0·12	0·04	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	.	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total .	0·01	0·02	0·61	0·14	0·72	0·67	3·20	2·43	1·93	0·99	1·36	0·10	0·08	0·05

OCTOBER.†

2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
Total .	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..

* Adopted as the standard instrument in the Observatory since 1845.

† No rain fell on days not included this table.

(Totals for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.†

(FROM PLUVIOGRAPH RECORDS.)

Hours (B. M. T.)										Daily Total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24			H. to H.		
0·02	..	..	..	..	..	..	..	..	0·10	0·25	0·10	23 24	0·19	1
..	..	..	..	..	..	..	..	0·01	..	0·14	0·09	9 10	0·12	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
..	..	..	..	..	..	..	..	0·01	..	1·07	0·04	8 9	0·07	6
..	..	..	..	..	0·09	..	..	..	..	0·10	0·09	19 20	0·10	7
..	0·08	0·14	0·04	0·09	0·41	0·09	..	..	0·03	1·05	0·41	19 20	0·92	8
..	0·03	..	..	0·03	..	..	0·16	..	..	1·16	0·54	4 5	1·08	9
..	..	0·01	0·18	0·05	..	..	..	0·06	..	0·46	0·18	17 18	0·41	10
..	..	..	..	..	..	..	..	..	..	3·15	1·06	8 9	2·77	11
..	..	..	..	0·01	..	..	..	..	..	0·01	0·01	18 19	0·02	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	13
..	..	..	..	..	..	..	..	..	..	0·09	0·06	4 5	0·11	14
0·01	..	..	..	..	..	..	..	..	..	0·07	0·04	9 10	0·07	15
..	..	..	..	..	..	0·07	0·02	..	..	0·41	0·23	10 11	0·38	16
..	..	..	..	..	..	..	..	..	..	0·30	0·24	6 7	0·31	17
..	..	..	..	..	..	..	..	..	..	0·06	0·06	7 8	0·06	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	19
..	..	..	..	0·01	0·03	0·05	0·02	..	..	0·11	0·05	20 21	0·12	20
..	..	..	..	..	..	..	..	..	..	**4·57**	**2·37**	**6 7**	**4·30**	21
..	..	..	..	..	..	..	..	0·08	0·13	1·49	0·70	7 8	1·38	22
..	..	..	..	..	..	..	..	..	..	0·88	0·47	5 6	0·81	23
..	..	..	0·03	0·06	0·03	..	..	..	..	0·12	0·06	18 19	0·12	24
..	..	..	0·08	0·05	0·03	0·01	0·02	0·01	..	0·20	0·08	17 18	0·20	25
..	..	0·03	0·17	0·16	0·02	..	..	..	..	0·38	0·17	17 18	0·40	26
..	..	..	0·06	0·04	..	..	..	..	..	0·10	0·06	17 18	0·09	27
..	..	..	..	..	..	..	..	..	..	..	..	..	..	28
..	..	..	0·02	0·04	0·05	0·02	..	..	..	0·13	0·05	19 20	0·13	29
..	..	..	..	0·02	0·02	..	..	..	..	0·04	0·02	18 19	0·04	30
0·03	0·11	0·18	0·58	0·56	0·68	0·24	0·22	0·17	0·26	15·34	..	..	14·20	Total.

OCTOBER.†

..	..	..	..	0·33	..	..	..	..	..	0·33	0·33	18 19	0·39	2
..	..	..	0·90	0·14	0·12	0·06	0·08	..	..	**1·30**	**0·90**	17 18	**1·18**	3
..	0·02	..	..	..	0·05	..	..	0·07	..	0·15	0·07	22 23	0·16	4
..	0·02	..	**0·90**	0·47	0·17	0·06	0·08	0·07	..	1·78	..	..	1·73	Total.

* Adopted as the standard instrument in the Observatory since 1845.
† No rain fell on days not included in this table.

NOTE.—There was a fall of 0·49″ of rain between 10h. and 11h. and 0·02″ between 11h. and 12h. on 11th February, 0·02″ between 5h. and 6h. on 27th February, 0·01″ between 20h. and 21h. on 18th April and 0·01″ between 23h. and 24h. on 18th April The months of January, March, May, November and December were dry.

Total rain in the year was 70·72″ by the Newman Raingauge and 77·69″ by the Pluviograph.

Total number of rainy days in the year was 81 according to Newman and 82 according to the Pluviograph, assuming a rainy day to be one on which a tenth of an inch or upwards has fallen.

The greatest fall of rain during a day in the year that of 10th July was 4·77″ according to Newman and 5·34″ according to the Pluviograph.

WIND VELOCITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

JANUARY.

Date.	Hours (B. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	4	3	5	5	7	7	5	3	3	3	5	7	10	10	11
2	8	7	7	7	8	8	7	7	7	8	9	5	4	5	8
3	5	6	7	7	7	7	6	7	8	9	10	7	6	5	4
4	4	3	3	5	5	7	7	8	10	11	7	5	5	8	10
5	3	5	4	3	6	10	11	7	7	9	10	12	15	15	15
6	7	8	8	8	9	7	7	7	8	8	7	7	8	10	9
7	5	7	8	9	9	10	10	10	10	10	9	6	4	5	8
8	4	3	5	8	9	10	9	11	11	10	9	6	4	5	7
9	6	7	7	6	7	7	8	8	7	6	6	9	7	10	11
10	3	2	5	5	6	6	6	7	6	6	5	4	8	8	9
11	4	6	8	7	6	9	8	7	6	9	8	7	10	17	19
12	9	10	11	9	7	8	10	9	7	6	8	7	9	17	15
13	5	5	5	5	5	5	8	7	7	6	5	6	7	9	11
14	7	6	4	7	7	7	11	10	10	8	8	6	5	7	9
15	1	1	3	5	6	8	7	5	6	5	4	6	8	9	11
16	3	3	4	4	5	9	8	8	8	7	7	5	5	8	9
17	2	3	5	5	5	6	8	7	7	6	5	4	7	7	8
18	4	4	5	4	4	5	7	10	5	5	4	6	9	11	13
19	8	8	9	11	10	6	5	5	6	7	5	5	7	10	12
20	6	7	8	8	7	6	5	6	9	8	5	8	10	12	13
21	5	4	4	5	6	9	8	5	4	5	7	5	7	9	9
22	4	4	4	6	6	5	5	3	5	8	11	11	9	12	14
23	4	5	7	6	4	5	4	6	7	7	5	4	5	7	10
24	5	4	3	3	3	3	3	3	5	5	4	6	8	9	8
25	2	2	1	1	1	1	3	4	5	5	4	6	7	8	8
26	6	5	4	3	3	3	3	3	4	8	10	10	10	9	9
27	3	3	4	4	3	4	5	5	5	5	4	3	4	7	8
28	3	5	4	2	5	7	8	6	7	7	4	5	6	9	12
29	3	2	3	3	2	4	5	4	4	4	11	14	19	15	14
30	6	7	7	9	9	7	5	8	4	8	8	10	12	16	17
31	9	5	5	4	4	4	5	4	4	4	6	7	6	7	10
Mean ..	4·8	4·8	5·4	5·6	5·8	6·5	6·7	6·5	6·5	6·9	6·8	6·7	7·8	9·5	10·7

FEBRUARY.

1	7	8	8	8	7	5	5	5	4	4	4	7	10	11	11
2	4	5	3	3	4	3	4	3	3	5	7	8	9	10	11
3	2	3	2	2	4	4	3	4	5	5	4	6	8	10	11
4	2	4	1	1	3	5	5	7	7	3	4	5	6	6	7
5	2	3	4	4	5	5	4	5	8	5	4	5	8	10	9
6	5	5	4	2	2	1	2	5	5	5	4	6	8	10	11
7	3	4	4	5	5	5	6	5	6	6	6	5	10	14	15
8	5	7	7	7	6	5	6	6	10	8	5	10	12	12	10
9	3	4	3	3	3	3	6	7	6	5	6	5	8	8	8
10	5	3	3	3	4	5	8	7	7	7	7	5	5	7	7
11	10	13	12	10	12	16	15	16	17	17	8	9	9	14	13
12	6	6	5	5	4	3	6	7	7	8	9	8	10	12	13
13	9	9	7	7	7	7	8	9	7	8	7	5	4	6	7
14	6	6	7	8	8	8	8	9	9	9	7	10	11	12	12
15	5	4	5	4	5	5	6	5	7	8	7	4	5	9	10
16	5	6	5	3	3	5	6	6	5	4	4	6	5	7	7
17	2	1	1	2	5	7	3	6	4	4	4	5	6	7	7
18	1	1	2	2	4	4	6	7	7	7	7	5	4	6	9
19	3	1	3	3	1	1	2	5	6	5	3	5	7	8	10
20	8	6	5	5	4	9	8	9	10	6	4	6	6	6	6
21	1	5	5	4	7	7	8	9	8	9	6	6	6	7	7
22	2	5	4	5	6	5	6	7	6	5	4	5	5	5	6
23	3	4	5	5	5	5	6	7	8	8	9	9	10	10	12
24	3	4	3	3	3	5	6	7	6	6	6	4	6	10	11
25	9	9	5	5	5	5	4	5	6	8	8	9	11	12	12
26	9	8	7	6	4	4	6	5	5	4	3	8	8	9	9
27	4	4	4	5	3	11	12	10	11	12	12	13	14	13	13
28	5	5	4	5	6	6	5	5	9	12	9	11	12	12	14
Mean ..	4·6	5·1	4·6	4·5	4·8	5·5	6·2	6·7	7·1	6·9	6·0	6·8	8·0	9·4	9·9

(Averages for sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

JANUARY.

Hours (B. M. T.).									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
12	13	11	10	10	9	5	4	7	7·0	4·3	16 30	18	1 54	0	1
8	6	6	6	7	7	7	6	5	6·8	4·4	0 3	11	13 12	3	2
3	5	8	10	9	7	8	4	6	6·7	4·5	9 40	13	15 50	2	3
11	10	10	10	10	8	5	6	4	7·2	5·3	16 1	16	2 30	2	4
16	15	15	16	16	13	13	12	9	10·7	7·7	19 50	30	3 2	3	5
12	11	12	12	11	11	9	4	6	8·6	5·9	16 45	18	14 40	3	6
8	10	11	10	11	11	9	8	4	8·4	5·9	19 32	16	15 12	2	7
9	8	7	7	10	8	8	6	6	7·5	5·3	15 57	14	0 50	3	8
12	14	12	11	12	10	7	5	4	8·3	5·7	16 45	20	23 7	3	9
10	13	13	11	9	10	9	6	5	7·2	5·2	18 3	19	1 20	1	10
18	18	17	16	18	17	12	11	9	11·1	8·4	19 25	31	0 25	1	11
13	14	14	12	12	11	7	5	4	9·7	7·2	13 42	27	23 26	1	12
11	12	11	10	10	8	7	5	7	7·4	5·6	17 15	19	13 28	1	13
11	12	12	11	11	9	7	6	3	8·1	6·0	16 57	17	12 57	2	14
13	13	13	12	12	8	8	6	5	7·3	5·5	15 20	19	1 20	1	15
10	9	12	11	8	6	5	3	2	6·6	5·1	17 57	18	20 30	2	16
9	10	11	12	10	7	6	5	3	6·6	5·1	18 57	18	0 30	2	17
12	13	14	13	12	8	8	10	7	8·0	6·5	16 8	20	8 56	3	18
11	12	15	13	15	12	9	5	7	8·9	6·9	19 12	23	8 12	2	19
13	13	14	11	10	8	6	7	6	8·6	6·3	16 32	21	21 20	1	20
9	10	9	9	10	9	9	8	6	7·1	5·4	18 59	16	0 50	3	21
14	13	10	11	10	9	6	4	3	7·8	6·3	14 50	20	6 0	2	22
12	12	12	12	13	11	7	9	6	7·5	5·9	17 20	19	4 45	1	23
10	10	11	11	9	7	5	4	2	5·9	5·0	17 1	15	5 36	1	24
8	9	10	12	8	4	3	2	5	5·0	4·3	18 25	19	0 53	1	25
11	11	10	10	9	8	4	5	4	6·7	5·4	16 5	17	8 22	2	26
9	9	10	11	10	7	5	5	5	5·7	4·7	18 2	15	0 21	2	27
9	9	8	9	6	4	3	5	4	6·1	5·2	14 35	18	3 30	1	28
10	14	14	12	10	8	9	5	4	8·0	6·4	12 45	26	1 20	1	29
15	15	14	14	11	13	12	14	11	10·5	8·3	14 30	25	8 10	2	30
11	13	13	13	12	7	5	5	5	7·0	5·4	17 20	21	12 58	1	31
11·0	11·5	11·6	11·2	10·7	8·9	7·2	6·1	5·3	7·7	5·8					Mean.

FEBRUARY.

13	14	14	14	8	6	4	5	3	7·7	6·2	16 7	21	19 25	2	1
10	7	6	4	2	1	1	1	1	4·8	4·2	14 40	15	21 30	0	2
10	8	8	7	6	3	3	3	2	5·1	4·9	13 57	15	0 20	1	3
8	9	6	6	3	3	1	1	1	4·3	3·6	16 11	13	1 10	0	4
11	10	10	8	6	3	1	1	2	5·5	4·3	15 45	15	0 0	0	5
13	12	11	10	9	7	5	4	3	6·2	4·9	15 54	19	3 45	1	6
14	14	14	15	13	12	11	8	7	8·6	6·5	18 10	22	0 35	2	7
10	11	11	11	10	9	8	4	4	8·1	6·3	12 14	20	22 15	2	8
7	8	9	8	10	9	9	7	4	6·2	5·0	12 30	16	3 5	2	9
9	6	6	6	8	6	4	7	8	6·0	4·6	15 45	13	12 25	1	10
13	10	10	11	11	11	10	7	6	11·7	10·0	10 15	28	11 47	1	11
13	9	6	6	5	6	7	7	8	7·3	5·7	15 4	23	6 0	1	12
9	10	11	12	13	11	9	5	6	8·0	6·5	19 2	21	12 47	1	13
12	13	13	14	13	12	10	7	4	9·5	7·1	19 13	22	11 9	2	14
10	10	10	11	8	7	5	3	4	6·5	5·5	17 3	17	22 15	1	15
8	8	8	7	4	3	2	3	4	5·2	4·1	15 45	13	0 25	0	16
8	9	8	8	7	5	4	3	2	5·0	3·8	16 55	15	1 25	1	17
10	9	7	8	6	6	4	5	3	5·4	4·7	15 50	14	1 7	1	18
12	12	11	7	7	5	3	0	4	5·2	4·6	15 45	19	2 12	0	19
8	8	8	7	6	5	5	3	3	6·3	5·4	15 50	13	14 30	1	20
8	7	7	7	6	4	3	3	2	5·9	4·9	16 28	13	13 5	1	21
6	6	6	6	4	4	3	3	1	4·8	4·3	14 36	11	23 15	0	22
12	14	15	14	13	13	10	6	5	8·7	7·4	16 30	23	10 3	2	23
11	11	10	6	3	3	5	8	10	6·3	5·5	16 50	17	19 20	1	24
12	13	12	10	6	6	8	7	8	8·1	7·4	16 34	21	19 5	1	25
9	8	6	5	4	5	4	4	4	6·0	5·8	11 36	16	19 46	1	26
11	9	9	10	10	8	7	6	4	9·0	7·6	11 14	22	4 48	0	27
15	16	15	13	10	9	8	7	6	9·1	7·5	14 48	23	10 40	1	28
10·4	10·0	9·5	9·0	7·5	6·5	5·5	4·6	4·3	6·8	5·7					Mean.

WIND VELOCITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

MARCH.

Date.	Hours (B. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	3	3	1	1	1	2	4	5	6	5	8	10	10	9	10
2	5	8	8	5	4	4	4	3	3	3	3	7	9	10	12
3	7	7	6	4	3	3	4	3	4	7	7	10	12	12	14
4	12	8	7	6	4	5	4	3	5	8	9	11	14	14	15
5	14	13	10	6	4	5	3	3	4	7	8	9	10	13	14
6	10	8	6	5	4	5	5	5	5	4	4	5	6	7	8
7	7	8	8	7	5	4	5	7	7	7	4	7	9	10	10
8	7	7	8	12	13	7	5	6	8	9	5	6	9	12	14
9	7	9	6	8	8	5	5	5	9	10	3	9	11	12	14
10	12	10	9	7	5	5	5	5	5	6	5	9	10	9	12
11	12	12	15	15	8	8	5	5	8	8	9	11	10	11	13
12	11	12	8	5	5	5	5	3	3	4	6	8	8	11	12
13	10	6	4	4	3	3	4	6	10	10	4	11	14	15	16
14	8	10	5	6	9	10	6	4	3	6	8	9	11	16	16
15	6	11	15	10	9	8	7	5	5	8	10	12	12	16	16
16	7	11	11	10	7	2	2	6	5	7	7	6	8	8	8
17	2	7	6	7	5	5	5	5	4	5	3	6	12	12	11
18	2	5	8	8	6	4	4	5	5	4	8	10	10	12	13
19	6	6	6	3	3	3	2	5	4	3	4	7	8	9	12
20	5	5	6	6	5	4	5	7	5	5	6	6	9	10	12
21	7	4	3	4	4	3	1	3	3	3	6	8	10	12	13
22	4	2	1	1	0	1	1	1	3	3	5	7	10	14	17
23	7	7	6	3	7	6	5	4	5	6	9	11	19	18	19
24	12	15	13	10	9	6	7	8	7	8	7	9	11	12	12
25	9	11	8	5	3	5	4	3	1	6	7	7	8	9	9
26	2	3	3	3	3	3	5	9	5	3	4	7	7	8	9
27	2	1	2	2	2	2	4	6	8	3	3	4	6	6	10
28	3	2	1	1	2	3	4	2	3	7	10	9	8	10	9
29	5	6	5	6	5	6	6	6	4	9	10	10	11	15	18
30	5	2	6	8	8	7	6	10	12	18	14	14	14	15	14
31	5	6	7	6	6	7	8	4	7	10	7	6	12	14	11
Mean ..	6·9	7·3	6·7	5·9	5·2	4·7	4·5	4·9	5·4	6·5	6·5	8·4	10·3	11·6	12·7

APRIL.

1	3	3	6	11	6	7	8	8	8	9	9	9	10	10	12
2	4	5	5	9	8	6	8	4	4	8	11	8	8	14	15
3	5	8	12	12	10	7	6	8	6	10	13	13	15	16	19
4	10	9	10	8	5	6	4	6	10	13	15	19	20	20	19
5	7	6	7	7	5	4	3	6	7	4	7	9	12	14	15
6	9	8	4	4	4	6	5	6	6	3	9	10	11	13	15
7	7	7	6	4	4	5	6	5	4	6	10	9	11	12	13
8	3	3	3	1	4	6	6	4	4	3	3	6	11	14	12
9	2	5	2	0	6	7	4	4	5	6	4	6	6	8	9
10	1	1	4	7	5	5	7	4	7	7	5	6	7	8	8
11	4	3	4	6	12	17	18	10	6	3	7	7	8	7	11
12	5	4	1	5	5	7	5	2	2	4	7	8	10	14	14
13	1	1	1	2	3	2	2	1	2	7	9	10	11	14	15
14	1	2	6	4	3	3	3	11	10	12	11	8	9	10	10
15	3	5	6	10	9	0	1	1	1	3	7	10	11	11	9
16	2	2	2	2	7	7	7	4	1	3	7	8	9	9	10
17	1	2	6	6	2	5	6	4	4	4	5	8	9	9	9
18	11	8	4	12	10	6	1	1	1	3	2	5	5	8	10
19	11	5	5	5	6	3	2	1	2	3	3	3	6	11	13
20	3	3	5	8	7	5	6	8	8	6	7	9	8	11	11
21	4	6	5	3	3	3	3	4	5	7	7	7	10	9	9
22	0	0	0	0	0	2	3	5	3	2	5	8	9	11	12
23	3	2	1	0	0	4	3	2	2	3	6	8	10	12	14
24	1	3	3	3	4	4	2	1	2	3	5	7	10	12	12
25	6	5	4	2	3	1	1	2	4	5	5	5	6	9	10
26	5	6	4	2	1	0	0	4	2	3	5	7	9	10	10
27	8	4	4	4	4	5	4	3	5	9	8	8	10	12	12
28	9	4	3	1	3	1	0	0	2	5	6	7	8	10	10
29	1	1	0	0	0	2	1	2	2	3	6	7	8	10	10
30	4	5	3	2	1	0	1	1	2	3	5	10	12	12	11
Mean ..	4·5	4·2	4·2	4·7	4·7	4·5	4·2	4·1	4·2	5·3	7·0	8·2	9·6	11·3	12·0

WIND VELOCITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Hours (B. M. T.)									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
11	11	11	9	7	5	2	3	3	5·8	5·4	15 55	17	23 58	0	1
12	13	13	12	11	5	5	5	3	7·0	6·1	16 35	20	0 0	0	2
19	**20**	17	15	12	10	11	13	15	9·8	7·7	16 7	**30**	8 34	1	3
17	16	14	13	12	8	7	7	12	9·6	7·7	15 25	26	7 50	1	4
14	14	13	9	8	7	7	5	7	8·6	7·0	14 29	21	6 40	1	5
10	11	12	10	9	6	4	4	4	6·5	5·9	17 47	19	20 55	0	6
12	13	11	9	6	6	4	1	6	7·2	6·7	16 13	20	22 0	1	7
15	14	13	12	10	10	10	10	9	9·6	8·0	15 22	25	5 5	2	8
15	15	15	14	13	10	10	13	13	10·0	8·4	15 22	24	10 6	1	9
14	15	14	14	15	13	11	8	11	9·5	8·0	15 8	23	9 52	1	10
14	14	12	14	9	8	4	7	10	10·1	8·5	15 12	23	9 15	1	11
13	12	12	9	7	8	6	3	10	7·7	6·7	1 20	18	8 40	1	12
17	18	17	16	13	10	9	7	9	9·8	8·2	15 55	28	10 37	0	13
18	19	17	12	13	13	11	7	7	10·2	8·4	16 35	28	8 50	1	14
15	17	16	14	12	5	2	4	2	9·9	8·1	2 4	26	23 50	1	15
8	8	4	4	7	6	1	**0**	0	6·0	5·2	2 40	17	20 52	0	16
11	11	9	11	7	8	5	7	3	7·0	6·0	12 57	19	0 0	0	17
12	12	11	10	7	5	5	7	7	7·5	6·7	16 50	17	0 45	1	18
13	13	13	14	14	12	8	6	5	7·5	6·3	19 45	20	3 10	1	19
12	14	13	12	13	12	7	5	5	7·9	6·6	16 18	22	10 59	2	20
14	13	13	15	9	11	12	12	9	8·0	7·0	15 40	22	1 32	1	21
20	18	17	16	13	11	11	11	8	8·1	7·1	15 18	29	4 30	0	22
19	19	19	19	18	14	8	6	12	11·1	8·7	12 25	30	2 50	1	23
13	14	12	10	10	7	5	7	9	9·7	8·4	15 30	22	5 50	2	24
9	11	9	8	7	5	1	1	2	6·2	5·5	1 20	16	21 35	0	25
10	8	7	5	4	2	1	1	2	**4·7**	**4·3**	14 33	15	20 32	0	26
10	10	9	7	8	6	5	6	5	5·3	4·5	15 55	15	1 55	1	27
8	11	11	13	9	6	4	4	4	6·0	5·7	18 35	18	3 17	0	28
19	17	16	12	7	7	7	7	6	9·2	7·4	14 54	30	9 0	1	29
14	16	15	14	13	12	13	13	7	**11·3**	**9·4**	9 5	28	1 20	1	30
10	13	13	12	7	4	7	4	4	7·9	6·9	13 28	21	20 4	0	31
13·5	**13·9**	12·8	11·7	10·0	8·1	6·5	6·3	6·7	8·2	7·0					Mean.

APRIL.

10	12	12	14	12	11	12	7	6	9·0	7·6	13 57	19	1 30	1	1
14	15	17	17	15	12	7	7	5	9·4	7·7	18 0	27	23 25	1	2
20	20	19	16	15	13	14	15	12	**12·7**	**10·7**	16 26	**30**	9 10	3	3
17	14	13	12	10	8	6	7	9	11·3	9·5	14 6	30	7 8	1	4
15	15	14	14	12	7	6	6	9	8·8	7·7	14 50	23	6 32	1	5
15	14	13	11	8	7	6	7	7	8·4	7·5	14 40	22	9 45	1	6
14	12	10	9	7	5	2	2	3	7·2	6.8	15 20	19	21 25	**0**	7
11	9	7	8	5	5	3	**0**	1	5·5	5·0	13 50	20	4 20	0	8
8	9	10	7	5	2	3	4	3	5·2	3·6	14 33	16	2 45	0	9
8	8	6	4	1	1	1	1	2	4·7	3·7	15 49	15	0 45	0	10
12	11	8	7	4	1	1	4	4	7·3	6·5	6 27	23	20 15	0	11
12	11	7	8	7	2	3	5	4	6·3	6·1	13 45	20	2 55	0	12
19	18	18	18	13	10	9	6	2	8·1	7·1	15 45	30	1 25	0	13
7	6	5	8	9	10	4	4	4	6·7	5·0	10 15	19	1 40	0	14
9	7	5	3	1	3	4	3	4	5·3	**3·5**	13 20	18	5 0	0	15
10	8	6	3	1	1	2	5	3	5·0	4·5	15 10	15	0 20	0	16
9	6	5	8	8	8	14	9	12	6·6	4·9	23 40	21	0 0	0	17
13	14	6	9	8	11	6	6	8	7·0	6·2	20 10	21	6 35	0	18
13	12	10	8	2	4	4	4	3	5·8	5·0	13 45	19	6 40	0	19
13	14	9	4	2	4	6	7	6	7·1	5·7	16 20	19	0 20	0	20
9	9	7	6	4	1	0	0	0	5·0	4·5	12 48	17	20 0	0	21
12	11	10	7	4	2	1	2	4	**4·7**	4·5	14 10	19	9 10	0	22
14	14	12	7	3	2	1	0	0	5·1	4·9	13 50	20	0 30	0	23
11	12	11	10	6	4	1	2	5	5·6	5·5	15 34	18	0 0	0	24
12	12	9	7	5	4	5	5	5	5·5	6·0	16 18	17	5 57	0	25
11	13	11	11	8	6	7	13	10	6·6	6·5	22 56	21	4 57	0	26
13	14	13	12	11	10	8	7	7	8·1	7·7	15 57	23	7 55	0	27
12	14	11	9	7	6	5	6	3	5·9	5·8	16 10	21	3 50	0	28
10	11	10	9	10	8	9	6	5	5·5	5·1	16 45	17	0 5	0	29
13	12	11	12	12	10	7	6	5	6·7	6·6	18 2	19	3 20	0	30
12·2	11·9	10·2	9·3	7·2	5·9	5·2	5·2	5·0	6·9	6·1					Mean.

WIND VELOCITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

MAY.

(IN MILES PER HOUR.)

Date.	Hours (B. M. T.)														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	6	5	6	6	6	5	7	8	11	9	12	11	11	12	12
2	9	7	3	3	2	3	3	4	3	2	2	8	11	12	12
3	2	2	0	1	4	1	1	2	2	5	8	11	12	12	13
4	2	2	2	1	0	1	1	2	3	5	7	8	10	11	12
5	3	1	1	1	0	0	0	0	1	3	6	8	11	13	13
6	2	3	3	2	2	1	1	1	5	6	6	7	8	7	9
7	7	5	5	6	6	4	4	5	6	5	6	6	8	10	11
8	1	2	3	1	1	0	1	2	3	3	4	6	7	8	9
9	3	2	1	1	0	0	0	2	2	3	4	5	6	8	10
10	1	2	3	3	3	3	3	3	1	3	8	9	10	11	13
11	9	9	11	10	10	4	5	5	8	9	11	13	13	14	16
12	15	11	8	6	5	4	3	3	5	7	10	11	14	16	17
13	12	5	5	9	8	4	2	2	4	5	6	9	11	11	9
14	8	7	9	6	6	7	2	3	4	2	5	9	11	13	13
15	11	10	6	3	5	4	6	5	6	7	8	10	15	14	12
16	8	6	3	3	4	3	3	5	4	6	9	10	10	11	12
17	8	8	6	2	2	2	1	1	3	5	6	6	7	8	10
18	6	4	4	6	5	6	7	8	6	8	8	9	14	15	15
19	12	13	13	12	11	8	8	8	7	8	11	9	9	9	9
20	6	6	7	8	9	10	9	5	5	7	6	7	8	7	7
21	5	5	3	3	4	4	5	5	4	4	3	4	5	6	6
22	4	5	5	4	3	3	3	4	4	4	5	5	6	7	7
23	5	4	4	4	5	4	4	3	3	3	5	6	8	9	9
24	3	3	3	2	2	3	2	3	4	6	6	6	7	9	11
25	3	4	2	2	4	2	2	4	3	5	5	7	7	10	10
26	5	5	3	3	2	1	1	3	5	5	9	10	11	11	11
27	4	5	3	5	6	4	6	5	7	7	9	9	10	13	13
28	8	5	2	3	6	8	7	7	9	8	7	8	10	12	13
29	3	3	2	1	1	1	1	3	5	7	7	7	8	9	8
30	3	3	3	2	2	3	3	3	5	5	5	6	6	6	7
31	6	6	6	4	3	3	3	4	4	5	6	6	6	7	8
Mean ..	5·8	5·1	4·4	4·0	4·1	3·4	3·4	3·8	4·6	5·4	6·8	7·9	9·4	10·4	10·9

JUNE.

1	5	5	4	5	4	4	3	4	5	5	7	6	6	7	7
2	5	6	5	6	6	5	5	6	5	6	7	9	10	8	8
3	8	7	6	8	7	7	7	7	6	7	7	8	8	9	9
4	7	7	7	8	10	7	7	7	8	7	10	10	9	8	8
5	5	6	7	8	6	7	6	5	6	5	7	8	9	9	9
6	5	6	5	4	4	5	5	6	7	6	7	9	8	8	8
7	5	5	4	4	4	5	5	5	4	4	5	6	6	7	8
8	3	3	2	4	5	4	4	4	3	3	4	5	7	7	6
9	9	8	8	7	6	5	4	4	6	7	6	8	7	7	8
10	6	6	6	6	5	6	8	7	7	7	8	9	8	10	10
11	6	5	3	3	2	1	1	2	3	4	5	6	8	11	11
12	3	12	18	12	5	1	2	5	5	4	4	3	4	6	9
13	5	4	5	7	4	8	6	6	5	5	6	8	17	32	33
14	22	16	17	20	24	23	20	15	17	19	20	22	22	20	16
15	15	18	20	20	18	19	16	13	14	15	16	17	16	16	17
16	15	14	11	9	9	11	13	8	6	6	7	8	12	12	10
17	12	12	11	10	9	8	8	7	8	5	8	10	10	14	12
18	12	13	15	13	9	9	10	7	6	9	11	7	7	6	15
19	14	12	10	10	16	14	13	12	13	18	20	20	18	16	13
20	16	16	18	16	18	7	7	12	16	16	17	11	8	12	14
21	14	14	12	15	12	16	17	17	14	11	10	13	11	13	13
22	10	6	3	10	15	17	15	15	16	22	25	18	17	18	16
23	19	20	20	19	19	18	17	17	17	18	15	16	17	16	13
24	11	12	11	13	12	13	12	12	15	13	13	18	17	15	19
25	14	18	13	10	12	11	14	14	14	16	15	18	15	9	11
26	11	9	13	6	9	10	13	12	11	10	12	16	16	13	7
27	14	13	15	15	14	13	12	12	15	19	18	8	14	15	14
28	15	15	16	16	14	15	14	16	14	16	16	16	17	16	16
29	16	16	14	14	14	16	17	16	16	18	18	20	20	18	17
30	18	17	19	20	20	19	19	18	18	16	17	16	15	16	15
Mean ..	10·7	10·7	10·6	10·6	10·4	10·1	10·0	9·7	10·0	10·6	11·4	11·6	12·0	12·5	12·4

(Averages for sixty minutes from full hour to full hour of local mean time.)

MAY.

(IN MILES PER HOUR.)

Hours. (B. M. T.)									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
12	11	8	9	4	5	4	5	7	8·0	7·6	10 59	19	19 7	0	1
12	11	9	8	6	3	3	3	3	6·0	5·7	14 45	18	2 18	0	2
14	12	10	8	7	5	5	5	3	6·0	6·0	14 30	20	0 42	0	3
12	11	9	9	8	6	3	3	4	5·5	4·8	14 57	19	0 7	0	4
15	15	15	13	11	9	8	5	3	6·5	6·5	15 58	22	2 45	0	5
8	8	8	8	7	6	8	8	8	5·5	4·5	16 20	15	0 20	0	6
13	12	12	12	10	6	4	4	2	7·0	6·1	15 1	18	23 55	0	7
9	9	8	7	5	4	3	2	3	4·2	3·1	15 0	15	0 1	0	8
11	9	7	5	6	8	5	4	3	4·4	3·6	14 20	17	0 58	0	9
14	13	13	9	7	6	6	6	7	6·5	6·7	15 39	21	0 10	0	10
17	18	18	16	8	6	8	10	12	10·8	10·0	4 21	26	20 53	0	11
18	19	19	17	14	12	13	13	12	11·3	10·1	17 25	30	5 59	0	12
13	13	16	14	11	10	2	6	5	8·0	7·4	17 45	23	1 40	0	13
12	13	13	15	13	14	15	14	15	9·5	9·0	18 25	22	6 35	0	14
11	13	13	11	12	10	9	7	7	9·0	8·9	12 50	21	2 35	1	15
12	13	12	10	8	9	9	8	8	7·7	8·0	16 13	18	1 45	0	16
8	7	8	10	9	5	4	4	6	5·7	4·5	18 57	16	3 15	0	17
16	16	13	17	17	16	15	15	14	10·8	8·6	15 52	25	2 50	0	18
9	7	8	8	7	7	8	7	7	9·0	6·9	1 22	22	8 38	0	19
7	8	6	4	7	7	6	5	4	6·7	5·2	6 13	17	7 10	0	20
7	8	7	7	6	6	4	3	3	4·9	3·8	16 32	15	8 15	0	21
8	9	7	6	5	5	5	5	4	5·1	3·8	15 13	15	6 36	0	22
10	10	9	9	7	5	4	4	3	5·7	5·2	15 5	16	7 8	0	23
11	10	9	8	5	5	3	2	3	5·3	4·6	16 20	17	3 6	0	24
10	12	10	9	7	6	7	6	5	5·9	6·4	16 10	17	2 45	0	25
12	11	10	9	9	8	8	6	6	6·8	7·5	16 10	17	3 29	0	26
14	15	13	9	5	5	7	7	8	7·9	8·3	16 30	20	5 55	0	27
14	15	15	10	4	5	6	7	4	8·0	8·6	16 59	22	2 40	0	28
8	8	8	7	5	4	4	5	3	4·9	3·8	16 30	15	3 15	0	29
7	6	6	6	5	5	5	3	4	4·6	4·1	13 50	13	3 25	0	30
9	8	6	6	5	5	4	4	5	5·4	3·8	15 12	15	4 40	0	31
11·4	11·3	10·5	9·5	7·7	6·9	6·3	6·0	5·8	6·9	6·2					Mean.

JUNE.

8	7	8	6	5	4	4	5	6	5·4	4·2	15 53	15	2 22	0	1
7	7	7	7	6	6	5	6	7	6·5	4·6	12 55	17	10 10	0	2
8	8	8	7	7	4	6	7	7	7·2	4·6	13 58	15	8 22	0	3
8	7	7	4	4	5	6	5	5	7·1	5·7	11 13	15	18 13	0	4
8	9	9	8	5	5	6	5	5	6·8	7·5	18 10	15	1 0	1	5
8	8	8	7	7	7	6	4	6	6·4	6·5	14 55	15	22 45	0	6
8	7	6	5	5	6	6	5	4	5·4	4·2	14 59	14	1 0	0	7
7	7	7	7	8	8	11	11	13	6·0	4·3	23 28	20	0 43	0	8
8	8	7	8	8	8	7	9	6	7·0	4·5	0 20	17	6 50	1	9
11	10	10	8	7	5	7	9	8	7·7	5·0	15 45	19	0 15	1	10
12	11	9	7	7	7	6	4	4	5·7	4·5	15 20	17	6 0	0	11
11	10	10	10	14	6	9	7	10	7·5	6·7	2 33	53	18 51	0	12
33	33	34	32	32	28	26	22	21	17·2	15·0	17 2	44	12 7	2	13
19	19	19	17	17	17	20	21	23	19·4	17·9	13 33	33	1 53	6	14
12	8	11	20	18	20	20	20	17	16·5	14·2	21 5	28	16 4	2	15
11	14	20	17	8	10	10	9	10	10·8	8·0	17 45	37	10 9	2	16
12	12	9	9	7	8	10	10	11	9·7	7·0	6 45	26	7 58	1	17
12	15	12	7	8	20	18	14	13	11·2	8·3	14 35	33	8 50	2	18
14	12	15	16	16	17	14	12	16	14·6	9·2	23 11	34	6 15	3	19
16	15	20	14	12	11	13	12	14	13·8	9·3	14 51	39	5 20	2	20
4	4	5	8	6	7	9	13	14	11·3	8·8	3 35	34	21 30	1	21
18	17	18	20	20	18	18	18	17	16·1	12·4	13 55	45	2 30	1	22
12	16	14	14	15	9	11	12	12	15·7	9·3	1 59	37	15 45	1	23
15	11	13	11	10	15	15	14	14	13·5	9·4	11 20	37	10 40	1	24
13	10	12	10	10	10	10	10	10	12·5	8·2	7 23	39	14 6	0	25
6	8	9	11	11	15	11	11	13	11·0	7·2	2 30	35	15 46	0	26
14	12	14	13	13	14	14	13	15	13·9	8·5	7 15	40	12 9	1	27
16	16	13	14	15	14	13	15	16	15·2	10·1	16 50	42	8 20	2	28
18	19	17	17	16	17	17	16	18	16·9	11·0	6 50	39	4 3	2	29
17	18	17	16	13	15	14	13	10	16·5	10·4	16 35	38	18 48	2	30
12·2	11·9	12·3	11·7	11·0	11·2	11·4	11·1	11·5	11·1	8·2					Mean.

WIND VELOCITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

JULY.

Date.	Hours. (B. M. T.)														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	15	17	16	18	18	17	16	15	15	15	14	14	15	15	15
2	14	13	13	13	12	13	11	13	13	11	14	13	12	11	11
3	12	10	11	11	11	11	11	8	6	7	7	8	10	6	7
4	9	10	10	10	10	9	10	7	7	11	11	10	9	9	10
5	8	7	7	7	8	10	12	13	13	8	7	10	5	6	2
6	7	6	9	8	8	7	6	7	12	9	10	13	9	5	7
7	7	8	8	11	10	14	11	10	12	11	12	11	11	12	11
8	7	7	8	10	10	10	11	11	10	11	13	14	16	10	4
9	10	4	1	3	2	3	5	6	7	9	5	9	14	13	13
10	9	9	10	4	8	14	13	10	8	8	7	6	6	5	12
11	3	3	4	3	1	1	1	6	7	4	3	9	9	9	18
12	6	6	4	7	12	13	10	10	10	7	11	15	12	12	10
13	11	13	11	8	15	16	10	12	16	19	15	15	15	14	14
14	10	18	15	14	13	10	11	10	10	16	11	12	13	14	15
15	12	10	11	10	11	9	9	10	9	11	10	14	14	15	14
16	8	11	9	10	10	11	11	9	13	12	21	20	14	11	14
17	13	15	19	18	17	17	16	14	14	12	12	13	16	14	14
18	15	15	14	14	16	15	15	14	14	14	15	15	14	14	13
19	16	17	17	15	14	19	14	15	16	14	15	13	14	14	12
20	10	10	12	13	15	13	12	10	9	11	10	11	11	10	10
21	14	14	14	13	14	15	14	15	15	15	13	15	15	12	11
22	15	9	14	20	18	23	13	17	17	21	17	18	18	19	18
23	18	17	21	18	24	20	15	15	15	16	18	17	20	16	13
24	17	17	16	17	16	14	17	20	20	21	23	23	18	16	16
25	12	13	11	13	14	13	14	13	13	13	14	14	15	12	10
26	14	14	12	10	12	12	11	14	11	14	11	13	12	12	12
27	12	11	13	13	12	8	9	10	10	11	12	10	12	10	6
28	11	11	11	12	11	12	11	10	10	8	9	8	9	8	11
29	11	10	10	10	9	9	11	8	12	9	10	11	10	11	13
30	10	11	11	10	14	11	13	12	10	15	13	14	17	13	14
31	12	13	13	15	15	15	14	14	13	14	12	14	15	14	14
Mean . .	11·2	11·3	11·5	11·5	12·3	12·4	11·5	11·5	11·8	12·2	12·1	13·0	12·9	11·7	11·7

AUGUST.

1	12	15	16	16	16	16	16	15	14	14	14	16	14	15	14
2	13	13	14	16	14	13	12	13	16	13	16	11	14	13	12
3	12	10	10	12	8	12	10	12	11	12	10	9	10	11	11
4	10	11	8	8	10	10	7	8	8	8	9	10	6	11	8
5	11	9	8	7	8	10	8	5	5	9	9	9	9	9	10
6	9	9	6	6	5	6	8	8	10	12	12	11	10	5	7
7	12	13	13	9	9	5	6	9	10	9	10	10	6	5	9
8	11	13	13	13	12	10	10	10	10	10	9	12	7	11	11
9	12	12	12	13	12	14	13	10	14	14	13	13	11	10	11
10	12	13	13	12	14	14	7	14	14	13	14	14	15	14	14
11	15	14	15	14	13	13	14	12	9	10	15	12	13	7	8
12	10	13	10	9	11	9	12	9	11	8	9	10	9	11	9
13	9	9	11	11	10	9	8	7	8	8	7	9	9	10	8
14	11	10	9	9	10	10	9	11	12	11	14	15	12	12	11
15	10	12	11	12	11	11	12	10	7	9	10	12	12	12	11
16	12	12	13	13	12	10	8	11	10	8	7	11	8	9	9
17	7	8	8	8	7	7	7	8	8	9	12	8	8	14	11
18	3	3	4	2	3	5	5	3	4	4	3	4	2	4	5
19	3	3	4	2	1	6	5	3	3	3	6	7	5	7	10
20	3	4	5	3	4	2	4	4	4	6	15	16	13	8	6
21	7	8	8	6	6	5	4	4	5	6	9	9	12	14	14
22	9	8	7	10	9	10	10	10	11	13	12	13	12	13	13
23	11	11	12	10	10	11	10	10	10	10	10	10	11	10	10
24	8	7	6	8	7	7	6	10	12	8	3	3	4	7	9
25	7	6	6	7	8	9	9	10	9	10	10	10	9	8	11
26	11	12	10	10	9	9	9	9	9	10	12	8	12	13	11
27	12	4	7	10	10	9	10	7	7	9	12	12	11	11	12
28	8	5	6	6	5	5	10	7	6	6	5	4	6	11	14
29	7	7	7	7	7	7	8	10	9	5	7	7	7	8	10
30	8	9	9	7	7	8	6	6	7	8	8	9	7	8	12
31	10	9	11	14	15	6	5	2	5	10	11	13	11	8	12
Mean . .	9·5	9·4	9·4	9·4	9·1	9·0	8·6	8·6	9·0	9·2	10·1	10·2	9·5	10·0	10·4

(Averages for sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

JULY.

Hours. (B. M. T.)									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
13	13	13	11	13	10	9	14	12	14·3	9·6	14 12	39	16 45	1	1
10	11	10	10	11	10	11	13	12	11·9	7·7	0 10	33	8 35	1	2
11	10	11	9	8	8	7	7	8	9·0	5·7	4 33	25	10 11	2	3
11	7	7	10	11	10	10	8	7	9·3	5·3	21 22	29	8 50	2	4
7	10	11	9	8	7	10	8	9	8·4	5·0	11 20	27	16 45	0	5
10	12	11	9	8	7	7	4	5	8·2	5·3	11 10	23	13 32	1	6
5	8	6	6	7	8	6	5	8	9·1	6·3	3 22	33	1 52	1	7
9	13	13	13	15	12	8	8	12	10·6	7·4	22 57	34	15 20	1	8
12	11	10	9	9	10	12	12	12	8·4	5·8	12 18	33	2 2	1	9
4	2	7	6	4	1	1	3	9	6·9	5·5	6 48	25	20 5	0	10
17	23	15	14	13	14	16	12	9	8·9	6·6	16 10	44	1 10	0	11
11	12	13	12	12	8	10	13	15	10·5	8·4	5 5	43	9 50	1	12
12	13	12	12	10	10	12	14	17	13·2	9·0	23 11	39	2 55	1	13
14	16	14	15	12	11	9	10	12	12·7	8·6	1 12	42	17 10	1	14
13	15	14	14	14	11	8	10	10	11·6	7.9	13 55	33	8 45	1	15
13	13	12	12	13	13	12	15	15	12·6	9·3	10 20	35	8 10	2	16
14	15	15	14	13	13	13	15	14	14·6	11·0	12 7	32	14 9	5	17
14	15	14	12	13	13	14	14	13	14·1	9·0	4 40	34	2 35	5	18
14	10	14	13	10	11	10	10	13	13·7	9·0	5 45	35	16 10	1	19
8	11	8	10	8	10	11	10	12	10·6	7·9	4 32	30	1 20	2	20
13	15	14	14	12	13	12	14	15	13·8	9·8	22 45	39	22 12	2	21
18	19	17	18	14	16	14	17	17	17·0	12·1	3 5	43	0 25	2	22
16	16	19	18	18	20	20	21	17	17·8	11·5	4 20	48	0 20	3	23
14	15	15	11	14	11	12	9	11	16·0	9·8	2 56	45	20 20	2	24
14	17	11	10	13	11	12	12	11	12·7	8·7	19 50	37	23 57	2	25
13	12	12	8	8	9	8	9	10	11·4	7·3	11 21	33	3 12	2	26
10	10	10	9	11	12	12	12	11	10·7	7·0	15 4	34	14 55	1	27
12	10	10	8	12	9	11	11	10	10·2	6·9	19 30	30	9 15	1	28
7	6	9	9	11	7	8	11	10	9·7	6·5	10 2	36	15 40	0	29
13	13	12	12	12	11	10	12	12	12·3	7·5	12 34	39	20 9	1	30
12	13	14	13	13	14	15	15	15	13·8	8·7	20 43	38	0 48	3	31
11·7	12·5	12·0	11·3	11·3	10·6	10·6	11·2	11·7	11·7	7·9					Mean.

AUGUST.

14	15	14	14	12	13	13	14	15	14·5	9·0	6 17	35	22 45	1	1
11	11	12	10	11	12	13	12	11	12·7	7·9	4 55	34	5 56	2	2
9	11	7	10	11	10	8	8	10	10·2	6·7	14 5	26	8 45	1	3
6	5	8	8	8	8	9	10	10	8·5	6·1	22 13	24	9 50	1	4
9	9	9	9	8	10	9	10	7	8·6	5·7	0 20	21	7 48	0	5
7	8	8	8	8	6	6	7	8	7·9	5·4	8 45	27	4 2	1	6
12	14	10	11	8	6	7	12	12	9·5	6·4	16 40	28	13 6	0	7
10	10	11	12	10	10	10	11	11	10·7	7·3	10 17	28	9 43	1	8
12	13	12	12	12	12	13	11	12	12·2	8·0	2 57	28	2 45	2	9
14	15	14	12	14	11	15	8	14	13·1	7·8	5 3	34	15 22	1	10
7	10	12	11	11	9	10	9	10	11·4	7·2	0 15	33	15 32	1	11
14	11	8	7	7	8	9	8	9	9·6	7·5	1 55	27	14 18	1	12
5	6	8	6	6	7	14	6	4	8·1	5·8	21 45	24	9 45	1	13
6	7	9	11	12	10	11	12	10	10·6	7·0	11 20	28	15 52	0	14
12	10	10	12	12	13	11	11	11	11·0	7·0	18 0	29	2 25	1	15
9	10	10	10	8	7	8	7	9	9·6	6·3	3 8	25	5 53	1	16
10	7	8	13	12	7	5	4	3	8·3	6·6	13 31	23	8 12	1	17
5	7	7	5	5	3	6	7	4	4·3	3·3	22 6	13	1 25	0	18
12	10	6	3	3	2	2	2	3	4·6	4·5	15 10	19	7 55	0	19
6	8	9	10	9	8	6	7	7	7·0	6·1	10 25	25	9 15	1	20
14	15	13	14	13	10	10	10	10	9·4	7·6	12 18	22	8 50	2	21
12	11	10	10	8	10	9	9	11	10·4	6·6	9 33	24	21 4	1	22
10	9	9	8	7	8	9	9	10	9·8	6·5	0 53	24	14 35	1	23
4	8	9	8	8	7	8	9	8	7·3	5·3	3 15	20	0 6	1	24
15	11	13	13	7	5	4	8	10	9·0	6·9	15 6	22	3 30	1	25
13	13	9	11	11	9	10	10	13	10·5	8·0	10 40	24	7 15	1	26
5	3	8	8	8	13	9	8	9	8·9	7·3	0 35	27	16 59	1	27
12	11	9	8	11	8	7	6	7	7·6	6·0	6 50	22	10 12	1	28
10	9	9	10	7	8	8	8	8	7·9	5·4	8 15	24	10 51	1	29
12	12	10	11	11	11	10	11	10	9·0	6·9	14 20	21	11 1	1	30
13	12	11	12	10	10	10	10	8	9·9	7·0	0 50	32	8 9	1	31
10·0	10·0	9·7	9·9	9·3	8·7	9·0	8·8	9·2	9·4	6·6					Mean.

WIND VELOCITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

SEPTEMBER.

Date.	Hours (B.M.T.)														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	9	10	10	12	15	8	7	10	11	10	9	9	9	14	18
2	6	6	7	9	9	7	7	6	5	7	11	13	10	11	10
3	7	8	7	6	4	5	5	4	3	5	4	4	3	5	6
4	6	6	5	7	6	7	5	5	5	5	6	6	5	6	7
5	7	5	5	5	5	5	5	4	4	3	4	5	6	6	7
6	7	5	6	6	4	5	5	5	6	6	6	6	6	7	7
7	7	8	8	7	8	8	8	8	9	8	12	12	14	20	15
8	12	12	16	14	13	12	15	15	14	16	15	18	13	16	15
9	8	9	10	6	10	13	10	10	10	11	13	11	13	10	11
10	9	7	8	10	14	14	15	10	16	15	15	10	11	12	10
11	13	11	12	10	11	11	13	13	10	12	15	19	19	16	14
12	12	13	14	14	15	15	12	14	14	10	13	11	11	11	11
13	9	9	10	10	11	10	10	9	5	9	10	10	11	12	12
14	9	9	10	10	8	9	10	8	8	10	10	12	10	9	9
15	6	6	5	6	5	7	9	9	7	9	9	9	8	8	7
16	5	5	6	9	8	8	10	6	8	5	9	10	9	9	9
17	4	5	5	6	7	6	4	4	4	2	3	5	6	6	5
18	3	2	2	1	1	3	4	1	2	3	3	3	5	6	8
19	1	2	1	1	1	2	1	1	2	3	3	5	8	10	11
20	4	1	1	2	4	5	3	5	4	4	7	8	10	12	14
21	4	4	7	4	6	3	2	2	3	4	3	3	3	5	7
22	1	4	2	1	0	5	4	3	3	2	4	4	4	4	5
23	1	0	1	4	11	6	3	5	3	2	1	1	3	7	7
24	2	2	3	3	2	3	4	3	4	3	2	4	6	10	11
25	3	1	3	3	2	2	3	3	5	4	1	2	8	8	9
26	3	2	1	3	3	3	1	2	4	3	1	3	6	7	8
27	10	9	8	5	2	2	1	2	4	3	3	4	4	5	4
28	10	6	6	4	3	3	1	1	4	5	5	4	3	2	4
29	3	4	4	1	1	2	4	5	4	3	5	7	9	11	14
30	3	4	3	5	5	5	3	3	5	4	2	3	4	3	5
Mean . .	6·1	5·8	6·2	6·1	6·5	6·5	6·1	5·9	6·2	6·2	6·8	7·4	7·9	8·9	9·3

OCTOBER.

1	7	7	6	5	5	5	2	4	4	4	3	2	1	1	1
2	1	2	2	2	1	2	2	4	3	2	3	2	3	7	12
3	11	8	6	3	2	1	3	2	4	5	4	2	5	8	8
4	5	5	5	7	6	7	7	3	6	7	7	5	3	6	10
5	2	3	3	1	1	1	1	2	4	4	4	6	7	10	11
6	9	9	8	9	9	8	9	8	8	7	9	9	7	5	5
7	5	2	1	0	1	2	4	5	3	4	3	3	3	5	9
8	2	2	3	2	2	4	2	4	4	6	3	2	3	6	7
9	3	5	5	5	5	6	8	8	10	10	8	7	5	6	5
10	11	11	7	3	3	4	5	5	6	5	5	6	6	6	6
11	1	1	1	3	2	2	2	4	5	5	5	3	6	9	8
12	1	3	3	4	3	2	3	3	3	3	3	2	5	9	12
13	13	11	7	6	6	5	4	5	6	9	9	9	10	10	12
14	10	8	6	5	5	5	4	4	4	3	3	3	4	4	6
15	4	4	4	5	7	8	8	9	7	4	5	6	6	5	5
16	3	5	6	7	8	9	9	9	8	7	5	6	5	5	6
17	3	4	3	5	7	6	7	7	7	6	6	3	4	6	8
18	5	4	4	5	5	5	4	5	6	7	7	8	10	12	13
19	4	4	3	4	3	4	4	3	5	6	4	3	1	3	5
20	4	6	3	3	5	5	3	2	3	2	3	2	2	1	5
21	5	5	5	5	5	3	4	4	4	3	4	5	8	9	9
22	5	6	8	7	6	6	7	7	9	6	5	5	5	7	9
23	5	6	6	8	8	10	11	11	10	9	6	4	3	5	7
24	2	3	3	4	5	4	5	4	4	4	4	5	7	7	7
25	6	6	7	8	8	9	8	6	3	3	2	4	4	6	6
26	2	3	2	5	6	5	4	4	3	3	3	5	6	6	8
27	1	3	6	7	3	3	3	3	4	7	8	9	7	7	9
28	6	6	6	5	10	6	4	3	4	6	6	6	9	12	13
29	2	3	3	4	5	6	5	4	5	5	4	7	9	10	11
30	5	3	3	3	4	6	3	3	3	3	3	4	6	7	7
31	4	4	4	6	5	5	5	6	5	5	5	4	6	8	10
Mean	4·7	4·9	4·5	4·7	4·9	5·0	4·8	4·9	5·2	5·2	4·8	4·7	5·4	6·7	8·1

(Averages for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Hours (B. M. T.)									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
10	4	3	3	6	6	5	5	7	8·7	6·6	4 58	28	17 43	1	1
9	9	9	10	8	5	6	6	6	8·0	6·5	9 5	19	9 40	1	2
7	5	4	5	5	9	12	6	7	5·7	5·0	20 50	23	12 20	0	3
6	6	5	5	6	6	5	5	5	5·7	4·5	14 13	15	1 57	1	4
11	11	9	4	3	6	6	6	6	5·7	5·2	15 7	24	0 58	1	5
10	9	7	7	6	7	7	7	9	6·5	5·2	15 49	18	5 4	1	6
8	6	6	13	15	11	10	10	11	10·1	8·7	19 38	35	9 12	1	7
14	14	12	12	12	4	7	9	9	12·9	9·1	2 8	35	2 18	1	8
13	16	11	11	7	9	9	10	10	10·5	6·9	15 1	40	12 3	0	9
10	8	7	7	12	8	11	13	11	11·0	8·3	6 5	30	0 57	1	10
12	14	12	10	10	10	9	11	10	12·4	9·3	11 28	34	2 10	1	11
12	10	9	10	9	10	8	9	9	11·5	7·0	8 27	31	9 52	1	12
10	10	11	7	7	7	8	9	9	9·4	6·7	9 57	22	8 35	1	13
10	8	4	7	6	6	6	6	6	8·3	5.9	15 40	26	17 49	0	14
5	7	7	6	7	5	6	5	4	6·7	4·9	13 55	18	8 55	1	15
9	6	8	4	3	2	3	4	3	6 6	5·0	10 25	33	9 40	0	16
5	3	1	1	4	6	5	2	3	4·3	4·0	11 58	14	6 45	0	17
10	10	9	9	7	5	5	5	3	4·6	4·5	15 55	17	7 9	0	18
12	12	10	9	7	5	5	5	5	5·1	4·5	15 50	18	0 30	0	19
12	12	13	10	8	3	3	6	7	6·6	5·9	14 20	20	20 45	0	20
7	7	8	8	8	5	4	3	2	4·7	4·0	17 8	17	5 55	0	21
8	9	8	7	6	6	5	2	4	4·2	3·5	5 50	13	5 0	0	22
8	7	7	5	4	4	3	2	2	4·0	3·4	4 45	20	1 0	0	23
10	12	11	5	6	3	6	5	4	5·2	4·5	17 20	23	10 46	0	24
7	7	6	10	9	10	6	1	1	4·7	4·3	18 28	16	17 45	0	25
6	0	10	9	8	8	9	8	8	4·8	4·5	22 32	20	15 55	0	26
5	3	2	1	1	7	6	8	11	4.6	4·1	23 35	20	16 45	0	27
4	4	4	3	4	3	3	4	2	3·8	3·7	0 48	19	12 3	0	28
11	9	11	22	12	13	4	5	2	6·9	6·6	18 15	31	9 40	0	29
5	6	18	16	6	6	7	8	11	5·8	5·2	17 10	37	0 0	0	30
8·9	8·1	8·1	7·9	7·1	6·5	6·3	6·2	6·2	7·0	5·6					Mean.

OCTOBER.

4	4	6	4	2	2	2	2	1	3·5	3·3	17 0	16	5 50	0	1
10	7	10	13	4	2	8	13	12	5·3	4·9	18 6	45	0 45	0	2
10	9	18	4	5	5	4	5	5	5·7	5·4	17 40	48	5 40	0	3
7	9	11	7	4	4	12	7	5	6·5	5·5	21 52	24	13 5	0	4
13	11	10	7	5	2	1	1	7	4·9	4·5	15 45	19	20 40	0	5
5	4	2	2	1	1	1	3	3	5·9	5·7	10 59	13	14 25	0	6
9	10	10	9	8	5	3	2	2	4·5	4·0	16 55	16	1 45	0	7
8	10	11	9	6	3	2	2	1	4·3	3·5	17 29	17	11 30	0	8
7	6	5	2	1	2	2	12	12	6·0	5·5	22 52	18	0 7	0	9
5	6	4	4	3	2	3	2	1	5·0	4·8	1 13	15	12 25	0	10
8	9	8	6	4	5	6	4	2	4·5	4·2	13 32	14	1 45	0	11
13	16	15	13	11	9	10	9	9	6·8	5·5	16 55	24	12 10	0	12
10	9	8	7	6	7	8	8	10	8·1	6·9	1 25	20	18 30	2	13
6	6	7	7	6	6	5	3	3	5·1	5·0	0 50	17	11 35	1	14
5	4	4	3	5	5	5	4	2	5·2	4·6	6 52	11	2 59	1	15
6	5	5	5	5	4	3	2	3	5·7	5·3	5 53	11	23 28	1	16
10	9	9	10	9	8	7	4	3	6·3	6·0	18 11	15	11 57	1	17
13	14	13	12	10	7	4	3	2	7·4	6·3	15 47	22	23 0	1	18
6	6	5	6	5	4	3	3	4	4·1	4·1	16 10	10	13 20	0	19
4	6	7	7	5	5	4	3	3	3·9	3·8	1 22	12	13 55	0	20
10	13	10	8	7	6	5	4	3	6·0	4·7	16 12	20	6 1	1	21
10	12	11	8	6	4	4	4	3	6·7	4·7	16 28	18	23 32	0	22
8	7	7	7	8	6	3	3	1	6 6	5·6	14 56	16	12 55	0	23
7	8	9	8	6	6	4	3	4	5·1	4·6	17 35	15	23 5	0	24
7	6	5	6	6	3	3	4	3	5·4	4·4	15 10	11	20 55	1	25
9	9	5	5	3	3	1	2	2	4·3	3·9	16 2	15	0 50	1	26
8	7	7	6	7	5	5	5	5	5·6	4·9	14 52	15	1 29	0	27
13	12	11	10	8	7	3	4	4	7·3	6·0	15 57	23	9 10	1	28
10	11	10	8	5	3	4	2	6	5·9	5·2	16 53	18	8 1	2	29
7	7	7	5	5	4	4	4	4	4·6	4·0	15 56	12	8 40	2	30
10	11	12	10	7	5	3	2	1	6·0	5·4	18 20	19	23 30	0	31
8·3	8·5	8·5	7·0	5·6	4·5	4·3	4·2	4·1	5·6	4·9					Mean.

WIND VELOCITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

NOVEMBER.

Date.	Hours (B. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	2	3	3	4	3	4	5	7	6	5	3	2	3	5	7
2	4	4	3	5	4	3	3	4	5	3	2	2	3	4	6
3	2	3	3	3	3	5	4	3	7	5	4	2	1	3	3
4	4	5	5	6	6	5	6	6	6	7	3	2	1	3	6
5	5	5	5	6	7	6	7	10	9	9	7	9	7	7	6
6	7	7	11	12	14	16	16	15	14	12	10	7	5	6	6
7	4	2	3	3	5	6	7	9	9	7	2	2	2	3	5
8	3	3	4	5	7	9	8	8	8	7	3	3	3	7	8
9	1	7	6	3	5	7	6	6	6	6	4	3	2	4	6
10	5	7	5	3	5	6	7	4	4	4	3	3	3	3	5
11	7	4	4	4	4	3	6	6	6	5	5	3	4	5	6
12	4	4	4	4	4	4	6	6	6	5	4	3	5	5	6
13	5	5	4	5	9	5	5	6	6	5	3	3	2	3	5
14	4	6	7	5	6	5	2	4	5	4	2	2	4	5	7
15	5	4	4	5	3	3	4	5	6	6	4	3	2	4	8
16	1	4	4	5	8	8	10	9	10	12	10	7	7	7	7
17	3	7	6	8	9	9	9	8	9	8	6	8	9	6	5
18	6	6	7	6	9	9	8	7	7	5	3	2	3	7	7
19	3	3	4	4	4	4	5	8	7	7	7	5	3	3	5
20	5	5	5	4	4	4	4	4	5	6	6	3	1	6	7
21	3	5	6	8	4	5	6	7	6	5	3	5	6	5	6
22	3	3	4	5	7	5	4	3	3	4	3	3	3	5	6
23	4	3	3	6	7	8	10	10	8	7	4	4	5	6	6
24	5	6	5	5	5	4	5	6	7	5	4	4	4	8	9
25	6	6	6	6	5	6	5	8	5	6	6	7	6	6	8
26	2	3	3	6	5	5	6	7	9	8	7	6	5	8	11
27	2	2	3	4	5	7	7	7	7	6	3	4	8	9	10
28	1	1	3	5	6	7	7	5	6	5	4	3	4	6	7
29	6	5	1	1	1	7	5	6	5	7	7	6	4	2	2
30	2	3	5	6	5	5	6	7	9	9	5	3	7	10	10
Mean . .	3·8	4·4	4·5	5·1	5·7	6·0	6·3	6·7	6·9	6·3	4·6	4·0	4·1	5·4	6·5

DECEMBER.

1	2	4	7	6	13	13	13	13	12	10	11	8	4	3	7
2	3	4	6	6	9	9	8	10	8	8	6	4	3	3	6
3	5	3	3	5	5	5	6	6	5	6	5	5	5	7	7
4	4	3	2	4	5	5	4	7	7	7	5	3	2	3	6
5	4	3	4	4	4	5	7	7	7	6	6	3	3	3	5
6	3	2	2	3	5	6	7	8	6	6	5	4	5	7	8
7	2	3	4	5	5	4	6	6	5	6	4	2	6	7	7
8	5	6	5	4	5	5	5	7	6	6	5	3	9	11	13
9	5	6	4	8	6	5	7	8	6	6	6	5	6	9	10
10	8	7	6	6	6	8	7	6	7	4	4	6	5	7	9
11	4	3	3	5	9	8	7	6	6	4	4	3	5	7	8
12	7	7	5	5	5	4	4	4	4	4	3	4	6	9	10
13	3	3	5	5	4	4	4	4	3	3	3	7	10	10	12
14	5	5	6	5	4	3	4	3	6	6	3	5	5	5	4
15	3	3	3	3	3	3	4	5	5	3	3	3	4	5	6
16	2	1	3	4	4	3	4	5	5	5	7	5	5	5	7
17	1	2	5	5	8	8	9	11	7	5	5	3	4	4	7
18	5	5	5	6	4	5	4	4	5	5	4	3	2	3	5
19	3	3	3	3	5	5	3	3	3	3	2	2	3	6	10
20	5	5	5	3	3	4	3	4	4	4	4	7	6	8	10
21	7	4	4	3	4	3	4	6	6	4	6	6	8	12	13
22	6	5	5	7	8	9	7	8	6	4	8	9	10	10	13
23	4	3	3	4	5	7	5	6	8	7	5	4	8	8	10
24	5	6	5	4	4	6	4	5	6	5	4	3	3	6	9
25	4	5	5	5	8	12	12	12	11	11	6	5	5	3	7
26	5	4	4	4	5	6	6	7	9	8	7	5	3	8	10
27	5	6	5	5	5	5	4	4	5	4	5	4	7	8	10
28	4	3	7	8	9	7	3	3	4	5	5	8	11	11	10
29	4	5	5	5	5	6	6	7	6	5	3	10	10	11	11
30	0	4	5	4	3	5	7	8	7	6	4	4	4	5	6
31	5	6	6	6	8	8	6	5	7	6	5	4	6	6	7
Mean . .	4·1	4·2	4·5	4·8	5·7	6·0	5·8	6·4	6·2	5·5	4·9	4·7	5·6	6·8	8·5

(Averages for sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Hours (B. M. T.).									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
7	7	7	8	6	3	2	3	2	4·5	4·3	18 45	13	0 5	0	1
8	10	10	7	7	3	1	0	1	4·3	3·9	16 45	15	21 25	0	2
4	5	5	7	8	8	5	3	2	4·1	3·3	20 15	13	23 40	0	3
8	8	9	11	11	8	7	5	6	6·0	5·3	17 55	19	12 48	0	4
5	9	9	11	10	9	10	5	5	7·4	5·9	18 53	17	3 51	2	5
5	4	7	7	7	5	4	3	3	8·5	6·5	6 35	20	12 17	1	6
7	7	8	9	8	8	6	4	3	5·4	4·5	17 56	15	13 2	1	7
9	9	10	7	4	1	1	1	1	5·4	4·9	17 30	16	23 50	0	8
6	6	7	8	7	4	5	2	3	5·0	4·4	19 30	12	0 2	0	9
5	6	4	5	4	3	1	1	4	4·2	3·7	7 0	9	21 5	0	10
7	6	6	7	9	5	3	4	2	5·0	4·5	19 25	14	4 55	1	11
6	8	7	5	4	2	3	3	4	4·7	4·2	3 12	11	21 15	0	12
7	6	6	5	4	2	3	3	3	4·6	4·3	4 53	12	6 30	1	13
9	10	10	10	8	5	5	5	5	5·6	5·1	18 30	16	6 17	1	14
10	10	10	9	8	7	4	2	2	5·3	5·0	16 5	15	5 0	0	15
6	10	10	10	11	10	6	4	8	7·7	6·3	17 30	18	0 30	0	16
10	12	12	12	12	8	8	9	6	8·3	6·6	19 15	21	0 12	0	17
8	10	10	10	10	9	5	4	5	6·8	5·9	4 7	16	12 25	1	18
7	7	9	9	8	6	4	5	5	5·5	4·6	17 6	13	5 45	1	19
7	8	8	8	8	7	5	3	3	5·3	4·5	17 1	15	2 32	0	20
7	7	7	7	6	6	5	3	6	5·6	4·8	3 35	13	0 15	0	21
8	8	9	8	10	8	6	2	4	5·2	4·0	19 50	17	2 30	1	22
8	7	7	8	7	6	4	6	6	6·3	5·7	6 18	13	4 50	2	23
10	10	10	10	10	7	7	5	6	6·5	5·7	18 50	17	5 0	1	24
9	10	10	9	9	8	7	4	3	6·7	5·5	17 5	16	6 40	1	25
12	12	12	11	9	9	7	3	2	7·0	5·4	15 9	18	0 20	1	26
10	10	11	10	8	5	3	2	2	6·0	5·0	13 53	16	21 56	1	27
7	8	9	7	6	3	4	4	3	5·0	4·1	18 15	13	1 58	0	28
3	6	7	9	10	10	6	5	4	5·3	4·7	20 55	15	2 20	1	29
12	14	14	14	17	14	11	6	2	8·2	6·7	19 50	27	1 32	1	30
7·6	8·3	8·7	8·6	8·2	6·3	4·9	3·6	3·7	5·8	5·0					Mean.

DECEMBER.

8	9	10	10	11	9	8	7	4	8·4	6·7	19 10	19	0 30	2	1
7	9	10	10	9	9	7	5	6	6·9	5·7	16 48	15	13 32	1	2
9	10	10	9	8	9	7	2	5	6·1	5·0	16 45	16	22 5	1	3
6	7	9	9	8	6	5	5	5	5·3	4·0	19 8	13	13 30	1	4
6	6	7	8	8	6	5	5	3	5·2	4·3	19 45	12	13 5	1	5
8	9	11	9	8	7	3	2	2	5·7	4·9	17 35	16	2 0	1	6
7	9	8	9	10	8	7	4	4	5·7	4·9	19 45	16	0 50	1	7
13	14	13	12	10	8	6	7	6	7·7	6·5	16 10	25	11 38	2	8
11	12	12	13	12	9	6	7	6	7·7	6·5	18 10	23	4 50	2	9
10	10	9	10	12	11	11	7	5	7·5	6·5	21 2	20	9 53	2	10
9	8	8	7	7	7	6	6	6	6·1	5·2	15 40	15	9 52	2	11
11	12	10	9	11	10	6	5	5	6·7	5·7	16 20	19	8 7	2	12
11	11	10	10	10	9	7	6	6	6·7	5·5	19 28	19	6 20	2	13
4	4	5	6	6	4	3	3	2	4·4	3·7	9 30	9	1 9	1	14
6	4	3	5	3	3	1	2	3	3·6	2·9	14 19	12	7 1	1	15
6	6	5	6	5	3	1	1	1	4·1	3·6	13 50	13	22 10	0	16
7	6	6	5	5	4	5	6	6	5·6	4·6	7 1	18	0 40	0	17
5	6	9	14	13	9	6	4	3	5·6	4·8	19 12	23	7 25	1	18
12	12	13	12	10	10	8	8	9	6·3	6·0	18 16	21	12 7	1	19
10	8	8	9	7	6	6	6	7	5·9	5·8	15 52	18	4 16	1	20
13	15	13	14	16	12	10	8	7	8·3	7·2	18 50	25	5 12	1	21
14	14	14	14	12	12	12	11	6	9·3	7·8	16 50	22	9 45	2	22
11	11	8	5	4	7	5	5	5	6·2	4·9	4 15	24	2 57	2	23
11	13	14	13	13	14	11	5	5	7·3	5·3	20 27	22	12 15	2	24
9	10	10	10	10	10	5	4	4	7·6	5·5	18 58	18	13 50	1	25
11	11	10	10	10	8	6	5	5	7·0	5·1	15 22	19	12 41	2	26
12	10	14	14	15	13	11	6	5	7·6	5·7	15 15	21	7 46	2	27
10	14	13	11	8	7	5	5	4	7·3	5·3	16 55	19	1 0	2	28
11	9	8	7	6	4	1	0	0	6·0	4·7	13 38	17	23 0	0	29
5	4	3	4	5	3	3	2	2	4·3	3·2	7 15	10	0 0	0	30
6	7	9	8	8	10	8	7	7	6·7	5·1	17 48	14	12 35	1	31
9·0	9·4	9·4	9·4	9·0	8·0	6·2	5·0	4·6	6·4	5·2					Mean.

DIRECTION OF WIND, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

JANUARY.

Date.	Hours (B. M. T.).											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	ENE	ENE	NE	NE	NE	NE	NE	NE	ENE	ENE	ESE	NW
2	ESE	ENE	ENE	E	ENE	E	ESE	ESE	ESE	ESE	E	ESE
3	SE	SE	SE	SE	ENE	ENE	ENE	NE	ENE	ENE	E	E
4	ESE	ESE	NE	NNE	ENE	ENE	ENE	ENE	ENE	ENE	ESE	ESE
5	ESE	ENE	ENE	ENE	NNE	N	N	NE	ENE	ENE	NNW	NNW
6	NNE	NNE	NNE	NNE	NE	NNE	NNE	NNE	NE	NE	NE	NE
7	ENE	E	ESE	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE
8	NE	E	ESE	E	E	E	ENE	ENE	E	ENE	ENE	ENE
9	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	NNW	NNW
10	ESE	E	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
11	NE	NE	NE	NE	NE	NNE	NE	NE	NE	NE	N	N
12	N	N	NNE	NNE	NNE	N	N	NNE	NNE	NNE	ENE	ENE
13	N	N	N	NE	NE	NE	NNE	ENE	ENE	ENE	NNW	NNW
14	N	NNE	NE	ENE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE
15	NNE	NNE	NNE	NNE	NE	NE	ESE	ENE	ENE	ENE	ENE	NW
16	NE	NNE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	ENE
17	NNE	NNE	ENE	NE	NE	NE	ENE	ENE	ENE	ENE	NE	WNW
18	ESE	NE	NNE	NNE	NNE	NNE	NNE	N	ENE	ENE	E	NW
19	N	N	N	N	N	NE	NE	ENE	ENE	ENE	ENE	WNW
20	N	N	N	N	N	ENE	NE	NE	NNE	ENE	ENE	NNW
21	N	NNE	NNE	NNE	NE	N	N	NNE	NNE	ENE	NNW	NNW
22	NE	ENE	E	ENE	ESE	ESE	N	NE	NNE	N	NNW	NNW
23	ESE	ESE	ENE	ENE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
24	N	ENE	ESE	ENE	ENE	NE	NE	NE	ENE	ENE	ESE	NW
25	NNE	SE	ESE	E	ESE	ESE	E	E	ENE	ENE	E	NW
26	N	NNE	NNE	NE	ENE	ENE	NE	NE	NNE	N	NNW	NNW
27	NNE	NNE	NE	ENE	ENE	NE	NNE	NE	ENE	ENE	ENE	ESE
28	SE	WSW	WNW	WNW	ESE	ESE	ESE	SE	ESE	ESE	ENE	WNW
29	ESE	SE	ENE	N	N	NE	E	ENE	ENE	ENE	NW	NNW
30	NNW	NNW	NNW	NNW	N	N	NNE	N	ENE	NNW	NNW	NNW
31	N	NNE	NNE	N	N	ENE	SE	ESE	ESE	WNW	WNW	WNW
Mean.	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	NE	N

FEBRUARY.

1	N	N	N	N	NNE	ENE	ESE	ESE	E	E	ENE	NW
2	N	N	NE	N	N	NE	N	NE	ENE	NNW	NNW	NNW
3	ESE	ESE	ESE	ESE	ESE	ESE	NE	ENE	ENE	ENE	ENE	WNW
4	NW	ESE	N	N	NE	ENE	ENE	ENE	ESE	ESE	NE	WSW
5	NE	NE	ENE	NNE	NNE	ENE	NE	NE	ENE	E	SSE	SSW
6	E	ESE	ESE	ENE	ENE	ENE	ESE	ESE	ESE	ESE	ESE	W
7	N	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	NNW
8	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	NNW
9	NE	NE	NE	ENE	ENE	ENE	ENE	ESE	ESE	ENE	ENE	E
10	NE	NE	ESE	ENE	ESE	ESE	ESE	ESE	ESE	ENE	E	ESE
11	SSE	SSE	SSE	S	SSE	SSE	SSE	S	SSW	SSW	WNW	SW
12	WNW	WNW	NW	NW	WNW	WNW	NNE	NNE	NNE	NNE	N	N
13	NNW	NNW	NNW	ENE	ENE	ENE	ENE	ENE	ESE	ESE	E	ESE
14	NE	NNE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	NNW
15	NE	NE	NNE	NE	NE	NE	NE	NE	ENE	ENE	ENE	E
16	SE	SE	SE	SE	ESE	E	ENE	ENE	ENE	ESE	SE	SSW
17	SE	SSE	NW	E	E	ESE	ESE	ENE	E	SE	SE	WSW
18	W	SE	SE	E	NE	ENE	ENE	ENE	ENE	ENE	ENE	E
19	NE	NE	SE	ESE	NNE	ESE	NE	NE	ENE	ESE	ESE	WNW
20	SSE	SSE	SSW	SSW	S	SE	SE	SE	SE	SE	SE	S
21	WSW	SE	SE	ESE	ESE	SE	ESE	ESE	ESE	ESE	SSE	SSW
22	SE	SE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	E	SE
23	NNE	NNE	NNE	NE	NE	NE	NNE	NNE	NNE	NE	NNE	NNW
24	N	NE	NNE	NNE	NE	NNE	NNE	NE	NNE	ENE	NNW	NW
25	NNW	NNW	NE	NE	NE	NE	NE	NE	NNE	N	NNW	NNW
26	NNW	NNW	NNW	NNW	NE	ENE	E	E	E	ESE	SE	NNW
27	WNW	NW	NW	NNW	NNW	N	N	N	N	N	N	N
28	NE	NNE	NNE	NNE	NNE	NE	NE	NNE	N	N	N	NNW
Mean.	NNE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NNW

(Averages for sixty minutes from full hour to full hour of local mean time.)

JANUARY.

Hours (B. M. T.).												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NNW	WNW	NNW	NNW	NNW	NNW	N	N	N	NE	NE	SE	N	1
SE	NW	WNW	WNW	NW	NW	NNW	NNW	N	NNE	NNE	NE	ENE	2
ESE	E	ENE	Variable	W	WNW	NNW	NNW	N	N	NE	NNE	ENE	3
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NE	ESE	NNE	4
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	N	5
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	ENE	N	6
ENE	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	NE	NNE	7
ENE	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	ENE	ESE	NE	8
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	SE	NNE	9
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	ENE	NNE	10
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	11
NNW	NNW	N	N	N	N	N	N	N	NNE	ENE	NNW	N	12
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NE	NNE	N	13
ENE	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NE	NNE	NNE	14
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NE	N	15
WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NE	SE	NNE	16
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	ENE	ESE	N	17
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	18
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	N	N	19
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	20
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	21
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	ESE	N	22
NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	N	N	23
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	24
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	N	N	25
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	N	26
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	SE	N	27
WNW	WNW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NNE	ENE	NNW	28
NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NNW	N	29
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	30
WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	31
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	N	Mean.

FEBRUARY.

NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	1
NW	NW	WNW	WNW	WNW	NW	NW	NW	NW	NW	SE	ESE	NNW	2
WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	NW	NW	NW	3
WSW	WSW	W	WNW	WNW	NW	NW	WNW	NW	NW	WNW	WNW	NW	4
W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	N	ENE	NNW	5
W	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	N	N	NW	6
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	7
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	8
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	N	9
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	SSW	SSE	SSE	ESE	10
SW	NW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	SW	11
NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NNW	12
Variable	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NE	NE	N	13
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	N	14
variable	NW	WNW	NW	NNW	NNW	NNW	NNW	N	N	NE	N	N	15
WSW	WSW	W	W	W	WNW	WNW	WNW	WSW	WSW	SW	SE	SW	16
WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WSW	WNW	17
W	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	18
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	Calm	SE	NW	19
WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	SSW	20
SW	WSW	W	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	S	21
WSW	WSW	W	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	N	E	22
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	23
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	24
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	25
NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	NNW	26
N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	NNW	27
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	28
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NNW	Mean.

DIRECTION OF WIND, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

MARCH.

Date.	Hours (B. M. T.).											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NE	ESE	ESE	NE	NE	NE	NE	NE	NE	ENE	NNW	NNW
2	NNW	NNW	NNW	NNE	NNE	NNE	NE	ENE	E	ESE	SE	WNW
3	NNW	NNW	N	NNE	N	NNE	NNE	NE	N	N	NNW	NNW
4	NNW	N	N	NNE	NNE	NNE	NE	NNE	ENE	NNW	NNW	NNW
5	NNW	NNW	NNW	NE	ENE	NE	ENE	NNE	ENE	NNW	NNW	NNW
6	NNW	NNW	NE	NE	NE	ENE	ENE	E	ESE	ESE	NW	WNW
7	NNW	NNW	NNW	NNW	NNW	NE	NE	ENE	ENE	ENE	E	NW
8	NNW	NNW	NNW	NNW	N	NE	NE	NE	ENE	ENE	ESE	WNW
9	NNW	NNW	NNE	NNE	NNE	NNE	NE	NNE	N	N	E	NNW
10	NNW	NNW	NNW	N	NNE	NNE	NE	NE	NE	N	NNW	NNW
11	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NNE	N	N	NNW	NNW
12	NNW	NNW	N	NNE	NNE	NE	NNE	NE	NNE	NNW	NNW	NW
13	N	N	NE	NE	NE	NE	NE	NNE	N	N	E	NNW
14	NNW	NNW	NNE	NNE	NNE	N	NNE	ENE	ESE	NNW	NNW	NNW
15	N	NNW	N	N	N	N	N	NNE	NNE	NNW	NNW	NNW
16	NW	NNW	N	N	N	SE	ESE	SSE	SSW	SSW	SW	SW
17	NNW	N	N	N	NNE	NNE	NE	NNE	NNE	ENE	E	NNW
18	N	NNW	NNW	NNW	N	ENE	NE	ENE	ENE	E	NNW	NNW
19	NNW	NNW	NNW	NE	NE	NNE	NE	SE	SE	SE	Variable	WNW
20	NNW	NW	NNW	NNW	N	N	SE	SE	SE	SE	NNW	WNW
21	NNW	NNE	NE	ENE	ENE	ENE	NE	SE	SE	SE	NW	NW
22	N	N	N	N	Calm	NE	NE	NE	SE	SE	NW	NW
23	NNW	NNW	NNW	N	NNW	NNE	NNE	ENE	ENE	NE	NNW	NNW
24	N	N	N	NNE	NNE	NNE	N	N	N	NNW	NW	NNW
25	NNW	N	N	NE	NE	NE	SE	SE	SSW	WNW	NNW	NW
26	WNW	N	N	N	NE	NE	SE	SE	SE	SSE	SW	WSW
27	SSE	N	N	NE	ENE	NE	NE	ENE	SE	SE	SSW	SW
28	N	SE	SSE	SSE	E	ENE	E	ESE	N	NNW	NNW	NNW
29	N	N	NE	NE	NE	N	NE	NNE	ENE	N	N	NNW
30	ENE	ENE	NE	NNE	NE	NE	ENE	N	N	N	N	N
31	N	N	N	N	N	N	N	N	N	N	ENE	ES
Mean.	NNW	NNW	N	N	NNE	NNE	NE	NE	NE	NNE	NNW	NNW

APRIL.

1	N	N	NNW	N	N	NNE	NNE	NNE	N	N	N	NNW
2	NNE	NNE	NNE	N	NNE	NE	ENE	NNE	NNE	N	N	N
3	N	NNW	N	N	N	N	NNE	NNE	NNE	N	N	N
4	N	N	N	N	NNE	NNE	NNE	NNE	N	N	NNW	NNW
5	NNW	NNW	NNW	NNW	N	NE	NE	ENE	ENE	E	NNW	NNW
6	NNW	N	NE	NE	ENE	ENE	ENE	ENE	ENE	E	NNW	NNW
7	N	N	N	NE	NE	NE	ENE	ENE	E	NNW	NNW	NW
8	NW	NW	NNW	NNW	SE	SE	SE	E	E	SSE	SSW	W
9	WNW	WNW	NW	Calm	SE	SSE	SSE	SSE	SSW	SW	WSW	WSW
10	NNW	SE	SE	SE	SSE	SSE	SSE	SSW	SSW	SW	SW	WSW
11	WSW	WSW	SW	SSE	SE	SE	SE	SE	SE	WNW	W	WSW
12	NNW	NNW	N	ENE	ESE	SE	SE	ESE	ESE	WNW	WNW	NW
13	NNE	ENE	ENE	N	NNE	NE	NE	ENE	N	N	NNW	NW
14	N	N	NNW	N	NE	N	SW	SSW	SSW	SSW	SW	SW
15	WSW	SSW	S	SSE	SE	Calm	SE	WNW	W	WSW	WSW	WSW
16	W	W	WNW	SSE	SSE	SSE	SSE	SSE	SSE	W	W	WNW
17	W	SSW	SSW	SSE	SSW	SSW	SW	SW	SSW	SW	WSW	WSW
18	SSW	SSW	SSE	SSW	SE	SSE	S	WNW	W	SSE	SSE	W
19	SE	SSW	WSW	WSW	W	WNW	WNW	W	S	SSE	S	S
20	SW	SW	SW	SSW	SSW	SSW	SW	SSE	SSW	SW	WSW	W
21	SW	S	SW	WSW	SW	SW	SW	SW	SW	SW	SW	WSW
22	Calm	Calm	Calm	Calm	Calm	SE	SE	SE	S	W	W	W
23	SW	SW	SW	Calm	Calm	SSE	SSE	SSE	SSE	SSW	W	WNW
24	WSW	SW	SW	SW	SW	SW	WSW	SW	SW	WSW	W	WNW
25	WNW	WNW	NW	NW	NNW	NNW	NW	NW	NW	WNW	WNW	WNW
26	NNW	NNW	NNW	NE	NE	Calm	Calm	SE	SE	NW	WNW	WNW
27	N	NE	NE	NE	NE	NNE	NE	ENE	N	NNW	NNW	NW
28	N	NE	NNE	N	NNW	NE	Calm	Calm	W	WNW	WNW	WNW
29	NNW	NNW	Calm	Calm	Calm	W	W	W	WSW	WSW	WSW	W
30	NNW	NNW	NNW	NE	SE	Calm	ENE	SE	SE	NNW	NNW	NW
Mean.	NNW	NW	NNW	NNE	E	ESE	ESE	ESE	SE	WNW	WNW	WNW

(Averages for sixty minutes from full hour to full hour of local mean time.)

MARCH.

Hours, (B. M. T.).												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNW	1
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NE	NNW	2
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	3
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	N	NNW	NNW	NNW	4
NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	5
WNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	6
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NNW	NNW	7
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	8
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	9
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	10
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	NNW	11
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	WNW	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	13
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NEN	NNE	N	14
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NW	NW	NNW	15
WSW	WSW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	Calm	Calm	WNW	19
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	N	NNE	N	17
NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	18
WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	19
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	20
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	21
NW	NW	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	NNW	NNW	22
NNW	N	N	N	N	N	N	N	N	NNE	NNE	N	N	23
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	24
WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NW	WNW	SSW	NNW	25
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	SE	WNW	26
W	WNW	WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	27
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NE	NNE	N	N	28
NNW	NNW	NNW	N	N	N	N	NNE	N	NNE	NNE	NNE	N	29
N	N	N	N	N	N	N	N	N	N	N	N	N	30
NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	31
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	Mean.

APRIL.

NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	1
NNW	NNW	N	N	N	N	N	N	N	N	N	NNE	N	2
N	N	N	N	N	N	N	N	N	N	N	N	N	3
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	4
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	5
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	6
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	W	WNW	NNW	7
WNW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	Calm	WSW	NW	8
W	W	W	W	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	W	9
W	W	W	WNW	WNW	WNW	NW	NW	SSE	SW	SW	SE	SW	10
W	WNW	WNW	NW	NW	NNW	NNW	N	N	N	NW	NNW	WSW	11
WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	N	NNE	NNW	13
WSW	WSW	WSW	WSW	WSW	SW	SSW	SSW	S	WSW	WSW	WSW	SW	14
WSW	W	W	W	WNW	W	WNW	WSW	SW	SW	W	W	WSW	15
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	SW	W	WNW	WNW	W	16
W	W	W	WSW	WSW	WSW	SW	SW	SW	SSW	SW	SW	SW	17
WNW	WNW	WNW	WNW	WNW	WNW	SSE	WSW	SSE	SSW	SW	SSE	SW	18
W	WNW	WNW	WNW	NW	NW	NW	NW	SSE	SSW	SW	SW	W	19
W	WNW	WNW	WNW	WNW	WNW	WNW	WSW	SW	SSW	SSW	SSW	WSW	20
WSW	W	WNW	WNW	WNW	NW	NW	NW	NW	Calm	Calm	Calm	WSW	21
W	WNW	WNW	NW	NW	NW	WNW	WNW	WNW	SW	SW	SSW	WNW	22
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	Calm	Calm	WNW	23
WNW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	24
WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	25
WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	26
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	27
WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	28
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	29
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	30
WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	NW	NW	Mean.

(Averages for sixty minutes irom full hour to full hour of local mean time.)

MAY.

Date.	Hours (B. M. T.).											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NNW	NNW	NNW	NNW	N	N	N	N	N	NNW	NNW	NNW
2	NNW	NNW	N	NE	NE	NE	NE	NE	E	SE	Variable.	WNW
3	NNW	N	Calm	E	ESE	ENE	NNE	ESE	ESE	NW	WNW	NW
4	NNW	NNW	NNW	ENE	Calm	S	SW	WSW	SW	W	W	W
5	NNW	NNW	NW	NW	Calm	Calm	Calm	Calm	SSW	WSW	WNW	WNW
6	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW
7	W	W	WSW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	WNW
8	WNW	WNW	WNW	WNW	WNW	Calm	W	WSW	WSW	SW	WSW	WSW
9	W	W	W	WNW	Calm	Calm	Calm	SE	SW	SW	SW	WSW
10	NW	WNW	WNW	WNW	NW	NW	NNW	ESE	ESE	NW	WNW	WNW
11	NNW	NNW	NNW	NNW	NNW	NNE	NNE	N	N	NNW	NNW	NW
12	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW
13	NNW	NNW	SW	SW	WSW	WSW	WNW	NW	NNW	NW	WNW	WNW
14	WNW	NW	NW	NNW	NNW	NNW	N	NE	E	ESE	WNW	WNW
15	NNW	NNW	NNE	NNE	NNE	NNE	N	N	NNW	NNW	NNW	NW
16	NNW	NNW	NNE	NNE	NNE	NNE	NE	N	NNW	NW	NW	NW
17	NNW	NNW	NNW	NE	NE	NE	NE	NNE	NNW	WNW	W	W
18	SSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW
19	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	SW	SSW	SSW	SW
20	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SW	SSW	SW
21	WSW	WSW	WSW	SW	SW	SW	SSW	SSW	SSW	SSW	WSW	WSW
22	SW	WSW	WSW	WSW	SW	SW	SW	SW	WSW	SW	WSW	WSW
23	SSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	WSW	W
24	W	W	W	WSW	WSW	WSW	WSW	SW	W	WSW	WSW	WSW
25	WNW	W	WSW	WSW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW
26	NW	WNW	WNW	NW	NNW	NW	WNW	NW	NW	NW	NW	NW
27	NW	NW	NW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW
28	NW	NNW	NNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW
29	NW	NW	NW	WNW	WNW	WNW	W	WSW	W	W	W	W
30	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
31	W	W	W	W	WNW	W	W	WSW	WSW	WSW	W	W
Mean.	NW	WNW	WNW	W	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW

JUNE.

1	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	WSW	WSW
2	WSW	WSW	WSW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
3	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW
4	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
5	W	W	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW
6	WNW	NW	NW	N	NNW	NNW	NNW	NNW	NW	NW	WNW	NNW
7	WSW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
8	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
9	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SSW	SW	SW	WSW	W
10	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	SW	WSW	WSW
11	WSW	WSW	WSW	SW	SW	WSW	WSW	SSE	SSE	WSW	WNW	NW
12	WNW	SSE	SSE	ENE	N	N	SE	SE	SE	SSE	SSW	SW
13	SE	SE	SSE	SSE	ENE	ENE	ENE	SE	SE	SE	SE	SE
14	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
15	SW	SSW	SSW	S	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW
16	SSE	SSE	SSE	SE	SSE	SSE	SE	SE	SSE	SSW	SSW	W
17	WSW	WSW	WSW	SW	NW	NW	WNW	WNW	S	W	WNW	W
18	W	W	WNW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	WSW
19	W	W	WSW	WSW	WSW	WSW	W	W	WSW	WNW	WNW	WNW
20	SSW	SSW	SSW	SSW	SSW	SW	SSE	W	WSW	WSW	WSW	WSW
21	SW	SW	SW	SW	SSW	SSE	SSE	S	SW	SW	SW	SW
22	WSW	WNW	WNW	NW	W	W	W	W	WNW	NW	WNW	WNW
23	WSW	W	W	W	W	W	W	W	W	W	WSW	WSW
24	SW	SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	WSW
25	SW	SSW	W	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
26	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW
27	WSW	WSW	WSW	W	W	W	W	W	WSW	WSW	WSW	WSW
28	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
29	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W
30	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	WSW	WSW
Mean.	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW

(Averages for sixty minutes from full hour to full hour of local mean time.)

MAY.

Hours (B. M. T.).												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	1
NW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	WNW	NW	NNW	NW	2
NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	3
W	WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NW	NW	NNW	WNW	4
WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	NW	5
WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	WNW	WNW	WNW	6
WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	NW	NW	WNW	7
W	W	W	W	W	W	W	W	W	W	W	W	W	8
WSW	WSW	WSW	W	W	W	W	WNW	WNW	WNW	WNW	WNW	W	9
WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NW	10
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NNW	11
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	12
WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	SSE	SSE	W	NW	13
WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NNW	NNW	NW	14
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	15
NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	16
WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SSW	SSW	SSW	W	17
SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	18
WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	SW	SW	19
SSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	SW	20
WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	21
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	22
W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	23
W	W	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	W	24
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW	WNW	NW	WNW	25
NW	NW	NW	NW	NW	WNW	WNW	NW	NW	WNW	WNW	WNW	NW	26
NW	NW	NW	NW	NW	NW	NW	NNW	NW	NW	WNW	NW	NW	27
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	28
W	W	WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	29
W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	30
W	W	WSW	W	W	W	W	W	W	WSW	WSW	WSW	W	31
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	Mean.

JUNE.

WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	SW	SW	SW	WSW	1
WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	2
W	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	3
WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	W	W	WNW	4
NW	NW	WNW	NW	WNW	NW	NW	NW	NW	WNW	NW	NW	NW	5
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	6
W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	SW	W	7
W	W	WSW	W	WSW	W	WSW	WSW	WSW	SW	SW	SW	WSW	8
W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	9
WSW	WSW	W	W	W	W	W	WSW	WSW	SW	SW	SW	WSW	10
WNW	WNW	NW	NW	WNW	WNW	WNW	W	W	W	WSW	WNW	WNW	11
WSW	WNW	WNW	NW	NW	NW	NW	ESE	SE	SE	SE	E	SE	12
SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	SSW	S	S	S	13
SSW	SSW	SSW	SSW	SSW	SSW	SSW	S	S	S	SSW	SSW	SSW	14
SSW	SSW	SSW	WSW	SW	SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	15
W	W	W	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	SW	SW	16
NNW	NW	WNW	NW	WNW	WNW	W	W	W	WSW	WSW	W	W	17
WSW	WSW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	NW	NW	WNW	18
WNW	WNW	WNW	W	W	W	W	W	WSW	WSW	SW	SW	W	19
W	WSW	WNW	W	W	WSW	WSW	SW	SW	SW	SW	SW	SW	20
SW	SW	WSW	WSW	WSW	WSW	WNW	WSW	WSW	SW	SW	SW	SW	21
WNW	WNW	WNW	NW	W	W	W	W	W	W	W	W	WNW	22
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	23
W	SW	SW	WSW	WSW	WSW	WSW	SW	SSW	SW	SW	SW	SW	24
WSW	SW	WSW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	SW	WSW	25
WSW	W	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	26
WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	SW	WSW	SW	WSW	WSW	27
W	WSW	W	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	28
W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	29
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	30
W	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	Mean.

DIRECTION OF WIND, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

JULY.

Date.	Hours (B. M. T.).											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW
2	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	SW	WSW	W	W
3	SW	SW	SW	SW	SW	SSW	SW	SW	SW	SW	WSW	WSW
4	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW
5	WSW	SW	SW	SW	SW	SW	SW	SW	WSW	SW	SW	SW
6	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	NW	WNW
7	SW	SW	SW	WSW	SW	SSW	SW	SW	SW	WSW	WSW	WSW
8	WSW	SW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW
9	WNW	WSW	W	SW	WNW	SSE	S	W	W	WSW	WSW	WSW
10	WSW	W	WNW	WNW	W	NW	WNW	W	WNW	WSW	WSW	WSW
11	WNW	WNW	SSW	SSW	SSW	SSW	SSW	SSW	SW	WNW	WNW	SW
12	WSW	WSW	WNW	WSW	W	WNW	WNW	NNW	WNW	WNW	WNW	WNW
13	WSW	WSW	WSW	WSW	WNW	WNW	WSW	WSW	WSW	W	W	W
14	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	W
15	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW
16	W	WSW	WSW	W	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW
17	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
18	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
19	WNW	WNW	W	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW
20	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
21	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
22	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W
23	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	W
24	WSW	WSW	WSW	W	WSW	WSW	W	W	WSW	WSW	WSW	W
25	W	W	WNW	WNW	WNW	WNW	W	W	W	W	W	W
26	WSW	WSW	WSW	WSW	W	W	W	WNW	W	W	W	W
27	WSW	WSW	WSW	W	WNW	WSW	W	W	WSW	WSW	W	W
28	WSW	W	WSW	WNW	WSW	W	WSW	WNW	WSW	WSW	WNW	WSW
29	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW
30	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	W	W	WNW	W
31	WNW	WSW	W	W	WNW	W	WNW	W	W	W	W	W
Mean.	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W

AUGUST.

1	WNW	W	W	WSW	WSW	WSW	W	W	W	W	W	W
2	WSW	WSW	WSW	WSW	WSW	WSW	SSW	WSW	WSW	WSW	W	W
3	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
4	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
5	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WNW	WSW	WSW	WSW	WSW
6	W	W	WSW	WSW	WSW	WNW	WSW	W	WNW	WNW	W	W
7	WSW	W	WSW	W	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW
8	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
9	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WNW
10	WSW	WSW	WSW	WSW	W	W	WSW	W	W	W	W	W
11	W	W	W	W	W	WNW	WNW	W	W	WNW	W	W
12	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
13	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	W	W
14	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	W	W	W
15	WSW	WSW	W	W	W	W	W	W	W	W	W	W
16	W	W	W	W	W	WSW	W	WNW	WSW	WSW	W	W
17	WSW	WSW	W	W	W	W	W	W	WNW	WNW	WNW	WNW
18	WSW	WNW	WNW	WNW	SSE	SE	SE	SE	SSE	SW	WSW	WSW
19	WNW	WNW	NW	NW	WNW	SE	S	WSW	ENE	ENE	NW	NW
20	WNW	WNW	WNW	WNW	NNW	WNW	WNW	WSW	WNW	NNW	WNW	WNW
21	WNW	WNW	NW	NW	NW	NW	WNW	WSW	SW	W	WNW	WNW
22	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
23	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	WSW	WSW	W
24	W	W	W	W	WSW	WSW	WSW	WNW	WNW	NW	WSW	SW
25	WNW	WNW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W
26	WNW	WNW	WNW	WNW	WNW	W	W	WSW	W	W	W	W
27	WNW	SW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW
28	NW	WNW	W	W	W	W	WNW	WSW	WSW	SW	SW	SW
29	WNW	W	W	SW	WSW	WSW	WSW	W	WSW	W	W	W
30	WNW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW
31	WNW	WNW	WNW	W	WSW	WSW	WSW	NNE	W	W	W	W
Mean.	W	W	W	W	W	WSW	W	W	W	W	W	W

(Averages for sixty minutes from full hour to full hour of local mean time.)

JULY.

Hours (B. M. T.).												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
WSW	WSW	W	WSW	WSW	WSW	SW	SW	SW	SW	WSW	WSW	WSW	1
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	WSW	2
SW	WNW	SW	WSW	WSW	WSW	SW	WSW	WSW	SW	SW	SW	SW	3
SW	WSW	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	SW	4
WSW	W	WNW	SW	SW	SW	SW	SW	WSW	WSW	WSW	W	SW	5
WNW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	6
WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	SW	SW	WSW	7
NW	NW	WNW	WNW	WSW	W	WSW	W	W	WSW	SW	WSW	W	8
W	W	W	W	W	WNW	WNW	W	W	WSW	WSW	W	W	9
WNW	W	WNW	WNW	NW	WSW	WSW	ENE	ENE	ENE	NNW	WSW	W	10
WSW	W	WNW	W	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	11
WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	W	WSW	WSW	WSW	WNW	12
W	WSW	W	WSW	WNW	W	WSW	WNW	WSW	WSW	WSW	W	W	13
WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	SW	SW	WSW	14
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	W	WSW	15
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	16
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	17
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WSW	WSW	WNW	18
WNW	WNW	WNW	WNW	W	W	W	W	WNW	WSW	WSW	W	WNW	19
WNW	WNW	WNW	W	NW	W	W	W	W	W	W	W	WNW	20
WNW	WNW	W	W	W	WSW	WSW	W	WSW	WSW	SW	WSW	W	21
WSW	W	W	W	WNW	WNW	W	W	WSW	W	WSW	WSW	W	22
W	W	WSW	W	W	WNW	WNW	W	W	W	WNW	WSW	W	23
W	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW	W	WSW	24
W	WNW	WNW	W	WNW	WNW	W	W	WNW	W	W	W	W	25
W	W	W	W	WNW	W	W	WSW	WSW	WSW	WSW	WSW	W	26
WNW	WNW	W	WNW	W	W	WSW	W	W	WSW	W	WSW	W	27
WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	28
WSW	WSW	WSW	SW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	29
W	W	W	W	W	WNW	W	WSW	WSW	WSW	WSW	WSW	W	30
WSW	WSW	W	WSW	W	W	W	WSW	W	W	WNW	WNW	W	31
W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	W	Mean.

AUGUST.

W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	1
W	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW	2
WSW	WSW	WSW	WSW	W	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	3
W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	4
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	5
W	WSW	WSW	W	WNW	W	W	W	WSW	WSW	WSW	WSW	W	6
WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW	WSW	WSW	WSW	7
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	8
W	W	W	W	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	9
W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	W	10
W	W	WSW	W	WNW	WNW	WNW	WNW	W	W	W	W	W	11
WNW	WNW	NW	WNW	WNW	WNW	NNW	WNW	WNW	WNW	WNW	WNW	WNW	12
W	W	WSW	SW	W	WNW	W	WSW	WSW	WNW	WNW	W	W	13
W	W	W	WSW	W	W	W	W	W	W	WNW	WSW	W	14
W	W	W	W	W	W	W	W	W	W	W	W	W	15
W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	16
WNW	WNW	WNW	WNW	NW	NW	WNW	NW	WNW	W	W	WSW	WNW	17
WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	W	18
WN	NW	NW	NW	NW	NW	NW	NNW	WNW	WNW	WNW	WNW	NW	19
WNW	WNW	NW	NW	NW	NW	NW	NW	WNW	NW	WNW	NW	WNW	20
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	21
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	22
W	W	W	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	23
SW	WSW	WSW	WSW	WNW	WNW	W	W	WNW	WNW	WNW	WNW	W	24
W	W	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	W	25
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	WNW	26
WNW	WNW	NW	NW	WSW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	27
WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	28
W	W	W	W	W	WNW	NW	WNW	WNW	WNW	NW	WNW	W	29
WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	30
NW	NW	W	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	31
W	W	W	W	W	W	W	W	W	W	W	W	W	Mean.

DIRECTION OF WIND, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Date.	Hours (B.M.T.).											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	W	W	W	W	NW	WNW	W	W	W	W	NW	W
2	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WNW	WNW
3	WNW	WNW	WNW	WNW	W	WNW	WNW	NNW	NNW	NW	NW	WNW
4	WSW	WSW	WSW	W	W	WNW	WNW	WNW	WNW	W	W	WNW
5	W	W	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W
6	W	WNW	WNW	W	W	WNW	WNW	WNW	W	WSW	W	W
7	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	W
8	W	W	W	W	W	W	W	W	W	WNW	WNW	W
9	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW
10	SW	WSW	WSW	SW	SW	SW	SSW	SSW	SW	SW	SW	SW
11	SW	SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	W	W
12	W	W	W	W	W	W	W	W	W	WSW	WSW	WSW
13	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	W	W	W
14	W	W	WNW	WNW	NW	NW	WNW	W	W	WSW	W	W
15	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW
16	WSW	SW	SW	SW	WSW	WSW	WSW	WSW	SW	NW	WSW	WSW
17	ENE	ESE	ESE	ESE	SE	SE	SE	SE	WNW	SE	S	WSW
18	ESE	ESE	SE	SE	SE	SE	SE	N	ESE	SE	SE	WSW
19	NNE	ENE	NE	NE	SE	ENE	NE	ENE	N	N	NNW	NW
20	N	NNE	NNE	NNW	NNW	NNW	NNE	N	N	NNW	NNW	NW
21	SE	W	NW	WNW	W	WSW	SW	SW	NNW	NW	NW	WNW
22	N	NNW	N	N	Calm	NE	NNE	N	NNW	NNW	NW	NW
23	NNW	Calm	N	NNW	E	NE	NE	NNE	NE	NE	NE	ENE
24	ENE	E	E	ENE	ENE	E	E	ESE	E	ESE	E	NW
25	NNE	N	NNE	NE	NE	NE	NE	E	E	E	NW	WNW
26	ENE	NE	NE	NE	NE	NE	NE	NNE	ENE	ENE	W	N
27	ENE	NE	ENE	ENE	S	SSW	SSW	SSE	SE	SE	SSE	SSW
28	ENE	ESE	E	SE	SSE	ESE	SE	SSE	SW	SSW	S	SSW
29	ENE	ENE	ENE	ENE	E	E	ENE	ENE	ENE	ENE	NW	NW
30	ESE	ENE	NE	NE	NE	ENE	ENE	NE	NE	ENE	W	NW
Mean.	W	W	W	W	W	W	WSW	W	W	W	W	W

OCTOBER.

1	ENE	ENE	ENE	NE	NE	NE	NNE	ENE	ENE	E	ENE	SE
2	SE	SE	SE	ESE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE
3	S	SE	SE	SE	NW	NW	NE	NNE	ENE	E	E	ENE
4	NNE	NE	NE	NNE	NNE	NNE	NNE	NE	NNE	NE	ENE	ENE
5	NE	NE	E	E	E	W	N	N	N	NNW	NNW	NW
6	SSW	S		SSE	SE	SE	SE	SE	SSE	SSW	SSW	SW
7	SSW	SSW	SSW	Calm.	SSW	SE	ESE	ESE	E	E	E	SE
8	N	NNE	ENE	NE	NE	E	ENE	NE	ENE	ENE	ENE	SE
9	E	SE	SE	S	SSE	SSE	S	S	S	SSW	SW	SW
10	SSW	S	SSW	S	SSE	SSE	S	S	S	SSW	SW	SW
11	NW	NW	WNW	N	N	N	NNE	ENE	ENE	E	ESE	SE
12	N	NNE	NE	NE	NE	NE	ENE	ESE	ESE	E	SE	SSE
13	N	N	NNE	NNE	NNE	NE	NE	ENE	NNE	N	NNW	NNW
14	NNW	N	NE	ENE	E	E	E	E	ESE	ESE	SE	SSE
15	NW	NW	NNW	SE	SE	SE	SE	SE	SE	SSE	S	SSW
16	WNW	SE	SE	SE	SE	SE	SE	ESE	SE	SE	SSW	SW
17	SE	SE	ESE	ESE	E	E	E	ESE	ESE	ESE	ENE	ESE
18	NNE	NNE	NNE	NNE	NNE	NE	NE	E	ENE	ENE	ENE	NNW
19	ENE	NNE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	E
20	ENE	ENE	NE	NE	ENE	ENE	SE	SE	SE	E	ENE	ESE
21	ENE	ENE	ENE	ENE	ESE	ENE	NE	ENE	ESE	E	ENE	NW
22	ENE	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE
23	WSW	WSW	WSW	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	ENE
24	ENE	NE	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE	ENE	WNW
25	SE	SE	ESE	E	ENE	ENE	ESE	ESE	E	ESE	SE	W
26	SSE	ENE	NE	SE	ESE	E	ESE	ESE	ESE	ESE	ESE	NW
27	NNW	SE	SE	SE	ESE	ENE	NE	ENE	ENE	NNW	N	NNW
28	NNE	NNE	NNE	N	NNE	NE	ENE	ENE	NNE	ENE	NNW	NNW
29	NE	NE	ENE	NNE	NNE	NNE	NNE	E	E	E	NNW	NNW
30	SE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E	ENE	ESE	WNW
31	ENE	N	NNW	N	N	N	NNE	NE	ENE	ENE	ENE	NNW
Mean.	ENE	ENE	E	E	ENE	ENE	E	E	E	E	ENE	NW

(Averages for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Hours (B. M. T.).												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
W	WSW	WNW	NW	NW	WNW	WSW	WSW	WSW	WSW	SW	SW	W	1
NW	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	2
NW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	WNW	3
WNW	W	WNW	WNW	WNW	WNW	W	WNW	WNW	W	W	W	W	4
WNW	WNW	WNW	NW	NW	NW	NW	WNW	W	W	W	W	WNW	5
W	W	W	W	W	WNW	WNW	W	WNW	WNW	WNW	WNW	W	6
W	WNW	WNW	NW	NW	WNW	WNW	NW	WNW	WNW	W	W	WNW	7
WNW	W	W	WNW	WNW	WNW	W	WNW	WSW	W	W	W	W	8
WSW	WSW	WSW	WSW	W	WSW	W	WSW	SW	WSW	SW	SW	WSW	9
WSW	WSW	W	WSW	WSW	SW	SW	WSW	WSW	SW	SW	SW	SW	10
WNW	WNW	WNW	WNW	W	W	W	W	W	WSW	W	W	W	11
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W	W	W	12
W	W	W	W	W	WNW	WNW	W	W	W	W	WSW	W	13
W	WNW	WSW	WSW	WNW	WNW	WSW	WSW	WSW	WSW	WSW	WSW	W	14
W	WSW	WSW	WSW	WNW	WNW	W	W	W	WSW	WSW	WSW	WSW	15
W	W	W	W	WNW	NW	NNE	NE	NW	NNW	NE	ENE	W	16
WSW	WSW	WSW	WSW	WSW	NNW	NW	NW	NNW	NNW	ENE	E	S	17
NW	NW	NW	NNW	NNW	NNW	NNW	N	N	N	NE	NNE	N	18
NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	19
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NE	ENE	SE	SE	NNW	20
WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	21
WNW	WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	22
NW	NW	NW	NNW	NNW	NNW	NNW	N	NE	NE	NE	ENE	N	23
NW	NW	NW	NNW	NNW	NE	ENE	NE	NE	NE	NE	NNE	NNE	24
NW	NW	NW	NW	NNW	NE	ENE	ENE	ESE	ESE	NNE	NNE	NNE	25
NW	NW	NW	NW	Calm.	SE	ESE	ENE	ENE	ENE	NE	ENE	NE	26
WSW	W	WNW	WNW	W	WSW	SW	ESE	ESE	E	NE	NE	E	27
W	W	NW	NW	NW	NW	NW	NW	NNW	NNW	NE	NE	NE	28
NNW	NNW	NNW	NNW	NNW	S	SE	SE	SE	NE	ENE	NE	NE	29
NNW	NW	NW	NW	NW	ESE	NE	NE	E	ENE	ENE	E	NE	30
WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	W	WNW	Mean.

OCTOBER.

SSE	WSW	WNW	NW	NW	SSW	WSW	SW	SE	SE	SE	SE	ENE	1
N	N	N	N	N	NNW	ESE	W	W	SE	SSE	S	ENE	2
NW	NW	NW	NW	NW	NE	NE	ENE	ENE	ENE	NE	NNE	NE	3
ENE	NNW	NNW	NNW	NNW	NNE	NNE	NE	NNW	NE	NNW	N	NNE	4
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SSW	NNW	5
SW	SW	WSW	SW	WSW	W	WNW	W	W	SW	SSW	SW	S	6
WSW	WNW	NW	NW	NNW	NNW	NNW	N	N	N	N	N	NNW	7
WNW	NW	NW	NW	NNW	N	N	N	N	N	NE	NE	N	8
SW	WSW	W	WNW	NW	NW	NW	NW	NW	WNW	SSW	SSW	SSW	9
WSW	WSW	W	W	WNW	NW	NW	NNW	NW	NW	NW	NW	SW	10
NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	N	NNW	11
NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	N	N	N	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	13
WNW	WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW	N	14
SW	WSW	WSW	W	W	WNW	W	WNW	WNW	NW	NW	NW	SW	15
SW	WSW	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	SE	S	16
NW	NW	NNW	NW	NNW	NNW	WNW	N	N	NNE	NNE	NNE	NNE	17
NNW	NNW	NNW	NNW	N	N	N	N	NNE	ENE	ENE	NE	N	18
SE	WNW	NW	NW	NW	NW	NW	N	N	N	NE	ENE	NNE	19
ESE	W	NW	NW	NW	NNW	NNW	NNW	N	NE	NE	NE	NNE	20
NW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	ESE	NNE	21
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	WSW	NNE	22
E	NNW	NNW	NNW	NNW	NNW	N	N	N	NE	ENE	E	NNE	23
NW	NW	NW	NW	NNW	N	N	N	NNE	NE	NNE	SE	NNE	24
W	WNW	WNW	WNW	NW	NW	N	N	NNE	NE	SE	SE	ENE	25
NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NW	NW	NW	N	26
NW	NW	NW	NW	NW	NNW	N	N	NNE	NNE	NNE	NNE	N	27
NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NNE	N	28
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SE	SE	SE	SE	N	29
NW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	ENE	E	N	30
NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NE	NE	N	31
NW	NW	NW	NW	NNW	NNW	NNW	N	N	NNE	NNE	NE	N	Mean.

DIRECTION OF WIND, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Date.	Hours (B. M. T.).											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	N	NE	NNE	NE	NE	NNE	NE	ENE	ENE	ENE	ESE	ESE
2	ENE	NE	NE	NE	ENE	NNE	NE	NE	ENE	ENE	ESE	SE
3	ENE	NE	NE	NE	NE	ENE	NNE	NE	ENE	ENE	E	SE
4	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	E
5	NE	ENE	ENE	ENE	NE	NE	NE	ENE	ENE	E	ESE	ESE
6	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ESE	ESE	SE
7	NE	ESE	NE	NE	ENE	ENE	ENE	ENE	E	E	E	ENE
8	NE	ENE	ESE	E	E	E	E	E	E	E	SE	SSE
9	SE	SE	SE	ESE	E	ENE	ENE	E	E	ENE	ENE	ENE
10	ENE	ESE	ESE	ESE	ENE	ENE	ENE	ENE	ENE	ESE	ESE	SE
11	ESE	SE	ESE	ESE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE
12	ESE	ESE	ESE	ENE	ENE	ENE	ENE	ESE	ESE	ESE	SE	SSE
13	ENE	NE	NE	NE	ENE	NE	NE	NE	ENE	ESE	ESE	ESE
14	ENE	NE	ENE	NE	ENE	NE	NE	NE	NE	NE	NE	ESE
15	NE	ENE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
16	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	NE	NE
17	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
18	NNE	NNE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	E
19	N	N	ESE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE
20	NE	NE	NE	ENE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
21	NE	NNE	NE	NNE	NE	NE	ENE	ENE	ENE	ENE	ESE	WNW
22	ENE	NE	NE	ENE	ENE	NE	NE	ESE	NE	ENE	ESE	ESE
23	ENE	NE	NE	ENE	ENE	ENE	ENE	ENE	E	SE	SE	W
24	NE	NE	NE	NE	ENE	NE	N	N	ENE	ENE	ENE	ENE
25	NNE	NE	NE	NNE	NE	N	NE	NE	NE	NE	ENE	ENE
26	NE	NNE	NE	ENE	NNE	ENE	ENE	ENE	ENE	ENE	NE	NE
27	NNE	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	WNW
28	N	N	E	ENE	NE	ENE	ENE	NE	NE	ENE	ENE	ENE
29	SE	SE	ENE	NE	NE	ENE	NE	ENE	NE	NE	ENE	ENE
30	NE	E	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE	ENE
Mean.	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E

DECEMBER.

1	N	NE	E	ENE	E	E	ENE	E	E	ENE	E	ENE
2	NE	NE	ENE	NE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE
3	NNE	NNE	NNE	ENE	NE	NE	NE	ENE	ENE	ENE	E	E
4	SE	ENE	NNE	ENE	ENE	ENE	ENE	ESE	E	E	ENE	ENE
5	NE	NE	ENE	ENE	NE	NE	ENE	ENE	ENE	NE	ENE	ENE
6	NE	NE	NE	NE	NE	NE	ENE	NE	NE	NE	ENE	ENE
7	NE	NNE	ENE	ENE	NE	NNE	NE	NE	NE	ENE	ENE	ENE
8	NE	NNE	NNE	NE	NNE	NE	NE	NE	NE	NE	NE	NE
9	NE	NE	NE	NE	NE	NNE	NE	ENE	NE	ENE	ENE	ENE
10	NNE	NNE	NNE	NE	NE	NE	NE	NE	NE	NE	ENE	NW
11	N	NE	ENE	NE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE
12	N	N	NNE	N	NNE	ENE	ENE	ENE	NE	ENE	ENE	NW
13	NNE	NNE	N	NNE	NNE	NNE	NE	NE	ENE	ENE	SE	NNW
14	N	N	N	NNE	NE	NE	ENE	NE	ENE	ENE	ENE	NW
15	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	ENE	ESE	ESE	SSE
16	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
17	ENE	NE	ENE	ESE	ESE	ESE	ESE	ESE	SE	SE	SSE	SSW
18	NNE	ENE	ENE	ENE	NE	N	NE	NE	ENE	ENE	ENE	ENE
19	N	N	N	N	NNE	NNE	NNE	NNE	N	N	NNW	N
20	N	N	N	NE	NNE	NNE	NE	NNE	N	N	N	NNW
21	N	N	N	NE	NE	NNE	NE	N	N	NE	N	NNW
22	NNE	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	NNE	NNW	N
23	NE	NNE	NNE	ESE	E	ENE	NE	ENE	ENE	ENE	ENE	ENE
24	SE	ESE	ENE	NE	NE	NE	NE	ENE	ENE	NE	ENE	S
25	NE	ENE	NE	NE	ENE	ENE	ENE	E	ESE	E	E	ENE
26	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
27	NE	NE	NE	NE	NE	NE	NE	NE	ENE	ENE	NNW	NNW
28	N	NNE	N	N	N	N	NE	NE	NNE	ENE	E	NNW
29	N	N	N	N	N	N	N	NE	ENE	ENE	E	NNW
30	Calm	SE	SE	ESE	SE	SE	ESE	ESE	SE	SE	ESE	W
31	ENE	ENE	NE	NE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE
Mean.	NNE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	NNE

(Averages for sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Hours (B. M. T.).												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18 19	19—20	20—21	21—22	22—23	23—24		
WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNE	NNE	ENE	NE	N	1
W	WNW	NW	NW	NNW	NNW	N	N	ENE	NE	Calm	NE	N	2
SSW	WNW	NW	NNW	NNW	NNW	NNW	N	N	ENE	NE	NE	NNE	3
SSW	ENE	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NE	ENE	NE	4
ESE	ENE	NE	NE	NNW	N	N	N	N	NNE	NE	NE	NE	5
W	W	W	WNW	NW	NNW	NNW	N	N	NNE	NE	N	ENE	6
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	NNE	7
W	WNW	NW	NW	NW	NNW	WNW	WNW	WNW	WNW	WNW	WNW	NNE	8
ENE	NW	NNW	NW	NW	NNW	NNW	NNW	N	NNE	NE	ENE	NE	9
W	W	W	WNW	WNW	WNW	NW	NNW	NW	NNW	ESE	ESE	ENE	10
NW	NNW	NW	NW	NW	NNW	NNW	NNW	NNW	NE	ENE	ENE	NNE	11
WSW	W	WSW	W	WNW	WNW	NW	NNW	N	SE	SSE	SSE	ESE	12
WSW	W	W	WNW	NW	NW	NNW	NNW	N	NE	ENE	ENE	NNE	13
WNW	WNW	NW	NW	NNW	NNW	NNW	NNW	NNE	NE	ENE	ENE	NNE	14
ENE	WNW	NW	NW	NNW	NNW	NNW	NNW	N	NNE	NE	NNE	N	15
NE	NE	NE	NE	NNW	NNW	N	NNE	NNE	ENE	N	N	NE	16
ENE	ENE	NE	NW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NNE	NNE	17
WNW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNE	NNE	N	N	18
ENE	WNW	WNW	NW	NNW	NNW	NNW	NNW	N	NE	ENE	ENE	NNE	19
ENE	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	ENE	NNE	20
WNW	WNW	WNW	WNW	NW	NNW	NNW	NNW	NNW	N	NE	ENE	N	21
W	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NE	ESE	N	22
WNW	W	WNW	WNW	NW	NW	NNW	NNW	NNW	NNE	NE	NE	NNE	23
ENE	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	ENE	ENE	N	24
NE	NW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NE	NE	NNE	25
NE	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NE	NE	NNE	26
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	27
WNW	WNW	NW	NW	NW	NNW	NNW	N	NE	NNE	ESE	ESE	NNE	28
ENE	ESE	E	WNW	WNW	NW	NNW	NNW	N	NNE	NE	NNE	NNE	29
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NE	NE	NNE	30
NNW	NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NE	NE	NNE	Mean.

DECEMBER.

ENE	SE	NW	NW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NE	NE	1
ENE	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	NNE	2
WNW	WNW	WNW	NW	NNW	NNW	N	N	N	NE	NE	SE	NNE	3
ESE	WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	NE	ENE	NNE	4
E	NW	NW	NW	NW	NW	NNW	NNW	N	NNE	NE	NE	NNE	5
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	N	NE	N	6
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	ENE	N	7
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	8
NW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NNE	9
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	10
WNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	11
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	N	N	N	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	N	N	N	13
NW	NW	WNW	NW	NW	NNW	NNW	N	NNE	NE	NE	ENE	N	14
SW	WSW	W	WNW	NW	NW	NNW	NNE	NE	NE	NW	NE	NNE	15
NW	NW	NW	NW	NNW	NNW	N	N	N	N	N	S	N	16
NW	WNW	WNW	WNW	NW	NW	NW	NNW	N	NNE	NNE	N	NE	17
SW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	N	N	18
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	19
NNW	NNW	NNW	N	N	NNW	NNW	N	N	N	N	N	N	20
N	NNW	NNW	N	N	N	N	N	N	NNE	NNE	NNE	N	21
N	NNW	NNW	NNW	NNW	N	N	N	N	N	N	NE	N	22
NW	NW	NW	NW	NNW	NNW	NNW	N	N	N	N	ESE	NNE	23
WNW	NW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	24
ENE	ENE	NW	NW	NNW	NNW	N	N	N	NNE	NE	NE	NE	25
ESE	NW	NNW	N	N	N	N	N	N	NNE	NNE	NNE	NNE	26
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	N	27
NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	28
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	N	Calm.	Calm.	NNW	29
WNW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	NW	ENE	ESE	30
N	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	31
NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	N	Mean.

(Averages for sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN DEGREES FAHRENHEIT.)

Date.	Hours (B. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	69·8	68·8	67·4	66·8	66·0	65·6	64·7	65·9	70·4	73·2	75·2	77·2	78·6	79·9	80·0
2	70·5	70·0	69·5	69·5	68·7	68·5	68·1	69·0	71·5	72·9	75·5	78·1	81·4	83·0	83·1
3	69 3	70·3	69·8	69·5	68·5	67·5	66·5	67·2	70·1	71·2	74·4	77·6	81·0	83·0	83·5
4	70·0	70·5	69·6	68·1	68·0	68·5	68·4	68·4	70·6	72·0	74·5	76·8	79·4	79·9	79·5
5	69·5	69·2	68·9	67·7	66·9	67·5	68·1	67·1	69·6	72·1	74·0	76·0	78·1	79·5	79·6
6	66·4	65·9	65·5	65·1	64·7	64·0	63·1	63·6	67·7	70·8	74·0	77·7	79·4	79·7	79·6
7	68·1	68·5	68·5	67·8	67·5	67·3	66·6	67·5	69·7	71·6	74·0	76·8	80·1	81·7	81·7
8	67·0	66·7	66·5	66·7	66·6	66·5	66·0	66·5	67·9	70·1	73·2	76·1	79·4	81·7	81·4
9	68·5	67·8	67·8	66·2	65·2	65·4	65·2	66·3	68·5	70·5	73·7	75·4	77·8	77·5	77·5
10	67·5	67·0	66·9	66·0	64·8	64·7	65·4	66·0	68·1	70·1	72·5	74·5	76·5	77·2	78·2
11	67·5	66·7	66·4	66·2	65·5	65·1	64·0	64·2	68·0	71·6	75.1	77·6	80·0	79·1	78·5
12	68·0	67·4	66·5	65·5	64·3	63·2	63·6	64·5	66·4	69·4	73·0	76·3	77·1	77·0	76·5
13	68·6	68·2	67·5	66·8	67·1	66·7	65·2	66·1	69·3	71·7	75·0	77·1	78·7	78·5	78·3
14	68·9	68·1	67·5	68·0	68·8	68·5	68·6	69·5	71·5	73·8	76·5	79·7	83·2	82·0	80·0
15	69·3	69·0	68·3	68·0	68·0	67·8	68·5	68·6	71·5	73·7	75·7	77·6	78·9	79·8	80·0
16	70·4	69·6	68·8	69·0	68·9	69·0	69·0	69·8	71·8	73·6	76·2	79·0	81·2	80·3	79·5
17	69·9	69·5	69·8	69·6	68·9	68·2	68·5	69·5	71·6	73·4	76·5	79·6	80·4	80·0	80·0
18	71·6	70·9	69·3	68·5	68·1	67·5	66·8	68·0	71·0	73·5	75·5	77·0	78·7	79·1	79·2
19	69·7	69·8	70·7	71·0	70·5	68·9	67·6	68·7	71·8	73·5	75·0	77·5	78·5	78·7	78·6
20	70·5	70·0	69·5	69·4	68·5	67·1	67·0	67·2	68·8	70·5	72·2	74·2	76·1	76·4	76·1
21	69·5	68·9	68·0	67·9	67·2	67·3	67·3	67·0	69·9	73·0	75·5	77·5	79·5	79·7	80·3
22	70·0	70·2	70·5	70·4	70·5	70·3	68·3	69·2	71·8	74·2	76·1	77·2	78·2	78·3	78·1
23	71·0	71·0	70·5	70·5	69·5	68·0	67·9	69·2	72·1	73·8	76·1	79·0	81·4	81·5	80·5
24	70·1	69·8	70·4	69·3	68·7	68·3	67·2	67·8	71·6	73·3	75·0	76·8	77·9	78·3	78·5
25	69·5	69·6	69·6	69·4	69·5	69·1	68·5	69·3	71·6	73·9	74·9	76·0	77·5	78·0	78·5
26	69·5	69·0	68·2	67·4	67·6	67·9	67·2	67·6	70·4	73·2	75·0	76·6	77·4	78·0	78·7
27	70·5	70·3	69·4	69·3	69·4	68·8	67·5	67·7	71·6	74·4	77·0	79·2	81·8	82·6	81·5
28	73·0	72·2	73·2	72·0	71·6	71·2	70·3	71·0	73·5	75·0	76·2	77·9	79·4	80·8	81·0
29	74·2	73·6	72·6	71·6	71.3	70·6	71·4	71·8	73·8	75·7	77·8	78·8	79·0	81·0	81·5
30	73·5	73·2	73·3	73·5	73·6	73·1	71·6	71·5	74·3	76·2	77·5	79·0	79·5	79·5	79·1
31	73·2	72·1	71·0	70·5	70·4	70·4	70·6	71·4	73·0	74·0	76·0	77·0	78·0	78·5	78·5
Mean . .	69·8	69·5	69·1	68·6	68·2	67·8	67·4	68·0	70·6	72·7	75·1	77·3	79·1	79·7	79·6
Variation .	−3·1	−3·4	−3·8	−4·3	−4·7	−5·1	−5·5	−4·9	−2·3	−0·2	+2·2	+4·4	+6·2	+6·8	+6·7
Mean in °C. .	21·0	20·8	20·6	20 3	20·1	19·9	19·7	20·0	21·4	22·6	23·9	25·2	26·2	26·5	26·4
Variation in °C..	−1·7	−1·9	−2·1	−2·4	−2·6	−2·8	−3·0	−2·7	−1·3	−0·1	+1·2	+2·5	+3·5	+3·8	+3·7

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1	71·2	71·0	70·5	70·0	69·0	68·4	69·0	70·2	72·9	74 4	76·5	78·1	79·1	79·1	79·0
2	70·5	70·6	70·2	69·4	69·5	69·6	69·0	69·7	73·2	75·2	77·0	78·5	79·2	79·5	79·9
3	73·1	73·6	73·0	72·3	72·4	72·1	71·0	72·0	73·8	75 2	76·9	78·9	80·1	81·1	81·3
4	72·3	72·5	71·8	71·4	71·3	71·4	71·3	71·5	72·9	74·2	76·0	77·5	78·5	79·6	80·0
5	71·6	71·2	70·7	71·0	70·6	71·2	70·9	71·6	73·3	74·2	75·8	77·5	78·6	79·4	79·7
6	74·1	74·1	73·8	72·9	72·5	71·9	71·7	73·0	74·4	75·8	77·2	78·4	79·4	80·2	80·4
7	71·7	71·6	71·5	71·8	71·4	71·4	70·6	71·4	73·9	75·8	77·4	78·5	79·0	79·4	78·5
8	72·5	71·9	71·8	71·8	71·0	71·0	70·7	71·6	73·9	75·8	77·0	78·0	78·5	79·0	79·0
9	71·7	71·5	71·0	71·0	71·2	71·3	71·5	71·9	73·3	74·8	76·7	78·0	79·4	79·6	79·5
10	72·3	71·6	71·7	71·5	71·4	71·2	71·2	71·8	73·2	74·9	76·7	77·9	78·6	78·8	79·4
11	74·9	74·5	74·2	74·1	73·9	73·8	73·9	74·9	76·8	77·9	74·3	73·8	74·3	75·7	77·3
12	71·9	71·7	70·5	70·7	70·2	70·2	71·3	71·4	72·3	73·8	74·7	76·0	77·2	77·7	78·0
13	70·8	70·6	70·0	69·5	68·9	68·6	67·7	68·0	69·3	71·5	74·3	76·2	77·0	78·0	79·6
14	69·5	69·1	68·0	68·2	67·9	67·8	68·0	68·6	70·6	72·5	74·4	76·0	77·0	77·7	78·0
15	68·5	67·5	66·9	66·5	66·5	66·0	66·1	67·1	70·4	72·5	75·0	78·1	80·9	81·9	81·4
16	70·5	72·5	72·0	71·0	70·1	70·2	69·9	70·4	72·3	73·4	74·8	77·1	78·6	79·5	79.8
17	72·5	72·0	71·4	71·5	71·6	71·1	71·1	71·7	73·4	74·3	76·2	77·5	78·1	79·0	79·8
18	73·1	73·0	72·7	72·5	72·5	72·4	72·3	72·5	74·0	75·6	77·2	78·5	80·0	80·6	81·0
19	72·0	71·5	71·1	71·5	70·6	70·4	70·5	71·7	73·7	74·4	76·0	77·4	78·2	79·4	80·3
20	74 2	73·8	73·0	73·3	72·9	72·0	71·5	72·2	73·9	75·8	77·5	79·1	79·5	80·0	80·3
21	72·4	73·0	73·0	72·2	72·1	71·8	71·4	71·6	73·4	75·0	77·4	78·6	79·4	79·8	80·0
22	73·0	73·6	73·3	72·8	72 7	72·5	72·3	72·6	74·3	75·8	77·4	78·5	79·6	80·2	80·5
23	73·1	72·6	72·3	72·0	71·8	71·4	70·6	71·9	74·1	76·8	78·4	78·9	80·0	80·2	80·2
24	73·4	73·0	72·2	71·7	72·0	71·5	71·5	72·6	74·5	76·7	78·6	79·4	80·5	80·9	80·9
25	75·3	75·1	74·5	73·7	73·2	73·0	72·7	73·5	75·5	77·1	78·2	79·2	79·9	80·1	80·1
26	74·9	75·0	74·9	74·6	74·6	74·3	74·0	74·7	76·5	77·7	78·1	79·2	80·4	81·0	81·0
27	75·5	75·3	75·3	75·5	75·4	75 0	74·4	74·5	74·8	76·3	77·4	78·4	79·5	79·4	79·1
28	69·8	69·5	69·2	68·6	68·4	68·0	67·5	68·3	72·5	75·0	77·4	79·0	79·8	80·1	80·4
Mean . .	72·4	72·2	71·8	71·5	71·3	71·1	70·8	71·5	73·5	75·1	76·6	77·9	78·9	79·5	79·8
Variation .	−2·4	−2·6	−3·0	−3·3	−3·5	−3·7	−4·0	−3·3	−1·3	+0·3	+1·8	+3·1	+4·1	+4·7	+5·0
Mean in °C. .	22·4	22·3	22·1	21·9	21·8	21·7	21·6	21·9	23·1	23·9	24·8	25·5	26·1	26·4	26·6
Variation in °C..	−1·4	−1·5	−1·7	−1·9	−2·0	−2·1	−2·2	−1·9	−0·7	+0·1	+1·0	+1·7	+2·3	+2·6	+2·8

(Averages for sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN DEGREES FAHRENHEIT.)

Hours (B. M. T.)									Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	°F	°C	Time. H. M.	Mag.	Time. H. M.	Mag.	
79·1	77·8	75·7	74·4	73·5	72·1	71·2	70·5	70·5	72·3	22·4	13 56	80·6	6 20	64·5	1
81·9	80·2	77·9	75·2	74·3	73·5	71·3	69·6	68·9	73·8	23·2	13 57	84·5	6 46	68·0	2
83·8	81·6	78·7	76·1	75·0	73·9	73·0	71·6	70·4	73·9	23 3	15 5	84·3	7 0	66·4	3
79·0	77·9	76·1	74·6	73·9	72·9	71·6	70·3	70·5	72·9	22·7	12 46	80·5	3 55	67·5	4
78·7	77·4	74·8	74·0	73·0	71·6	70·6	69·6	68·6	72·2	22·3	14 10	80·3	5 0	66·4	5
79·2	77·1	75·0	73·5	73·0	72·5	71·2	69·6	68·5	71·1	21·7	13 58	80·2	6 40	**62·7**	6
80·1	78·0	75·5	73·5	72·7	72·1	71·5	69·9	68·1	72·5	22·5	14 19	82·3	6 35	66·5	7
79·6	78·0	76·0	73·6	72·6	71·8	71·0	69·5	68·5	71·8	22·1	13 35	82·0	6 48	65·6	8
77·4	76·0	74·0	73·0	72·5	72·2	70·5	68·5	68·1	71·1	21·7	12 35	78·5	6 13	64·5	9
78·1	77.0	74·5	73·0	72·6	72·0	70·6	68·9	68·3	70·9	21·6	15 16	78·6	5 10	64·5	10
78·5	76·7	75·0	73·5	72·7	71·8	70·7	69·1	68·5	71·3	21·8	13 9	80·5	7 0	63·5	11
77·2	75·7	73·4	72·4	72·2	71·6	70·5	69·6	69·9	**70·5**	**21·4**	15 40	77·8	5 25	62·8	12
78·0	76·9	74·6	73·3	73·0	72·3	71·4	70·4	69·6	71·8	22·1	12 54	79·0	6 40	64·7	13
78·9	77·3	75·2	73·5	73·0	72·6	72·0	70·5	69·4	73·2	22·9	12 58	**84·6**	2 30	67·4	14
79·6	78·9	76·6	75·1	74·1	73·1	72·0	71·7	71·0	73·2	22·9	13 58	80·5	5 20	67·5	15
79·0	78·1	76·0	74·5	73·9	73·0	71·9	70·8	70·7	73·5	23·1	13 8	81·6	3 10	68·5	16
79·5	78·5	76·6	74·9	74·1	72·9	72·0	72·0	72·0	73·7	23·2	12 2	81·0	5 20	68·0	17
78·5	77·0	75·4	74·4	73·9	73·4	72·7	72·0	71·0	73·0	22·8	13 57	79·9	6 45	66·6	18
78·6	77·6	75·0	74·0	73·5	73·2	73·1	71·5	70·6	73·2	22·9	13 50	79·5	6 50	67·5	19
75·8	75·5	74·5	73·6	73·5	73·0	72·1	71·0	70·1	71·8	22·1	13 40	76·7	7 0	66·8	20
79·6	77·8	76·3	75·0	74·5	74·0	73·5	72·6	71·0	73·0	22·8	12 51	80·5	7 20	66·6	21
77·6	77·7	76·3	74·9	74·5	74·0	73·0	71·8	71·0	73·5	23·1	14 5	79·0	7 0	67·9	22
79·8	78·5	77·0	75·2	74·6	74·5	73·7	72·5	71·8	74·1	23·4	13 10	82·7	6 51	67·6	23
78·3	77·0	75·2	73·7	72·9	72·2	71·5	69·8	69·5	72·6	22·6	13 53	79·0	6 45	67·0	24
78·3	77·2	75·3	73·7	73·1	71·9	70·6	70·5	69·5	72·7	22·6	14 24	79·0	6 45	68·3	25
78·5	78·0	76·8	75·3	74·8	74·8	72·6	71·6	71·0	72·8	22·7	14 50	79·0	6 55	66·9	26
81·2	79·8	77·7	76·0	75·3	74·7	73·9	73·3	74·0	74·5	23.6	13 12	83·4	7 0	67·4	27
80·5	79·4	78·0	76·4	75·5	74·5	73·8	72·8	73·1	75·1	23·9	14 33	81·6	6 50	69·9	28
81·4	79·7	77·7	76·5	76·3	75·6	75·2	74·0	73·5	**75·6**	**24·2**	15 24	81·9	5 30	70.4	29
79·0	77·8	76·5	75·4	75·0	74·6	74·5	73·9	73·5	75·4	24·1	14 3	80·0	6 55	71·1	30
78·3	77·2	75·4	73·9	73·5	73·0	72·2	70·8	70·5	73·7	23·2	13 55	79·0	3 55	70·0	31
79·1	77·8	75·9	74·4	73·8	73·1	72·1	71·0	70·4	72·9	22·7					Mean.
+6·2	+4·9	+3·0	+1·5	+0·9	+0·2	−0·8	−1·9	−2·5							Variation.
26·2	25·4	24·4	23·6	23·2	22·8	22·3	21·7	21·3							Mean in °C.
+3·5	+2·7	+1·7	+0·9	+0·5	+0·1	−0·4	−1·0	−1·4							Variation in °C

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78·9	77·5	74·9	74·6	74·4	73·7	72·8	71·9	71·4	73·7	23·2	13 20	79·5	5 50	68·0	1
79·9	79·0	77·7	76·5	75·6	74·8	74·5	74·1	73·5	74·4	23·6	14 59	80·4	6 35	68·5	2
80·8	79·9	78·3	76·7	76·0	75·1	74·0	73·1	72·6	75·6	24·2	14 4	81·5	6 50	70·5	3
8 ·2	79·4	77·5	75·9	74·7	73·8	73·0	72·3	72·0	74·6	23·7	15 15	80·5	6 55	71·2	4
79·6	79·3	77·8	76·5	76·1	75·0	74·2	73·7	73·5	74·7	23·7	14 41	80·1	4 16	70·6	5
79·9	78·5	77·0	75·8	75·0	74·5	73·9	72·8	72·4	75·4	24·1	14 4	80·4	6 40	71·5	6
78·6	78·2	76·7	75·4	74·8	74·5	74·2	73·8	73·6	74·7	23·7	13 45	79·7	6 40	70·4	7
78·7	78·1	76·5	75·0	74·5	73·9	73·7	72·7	71·9	74·5	23·6	13 39	79·7	6 30	70·5	8
78·8	77·9	76·7	75·5	74·8	74·5	74·2	73·7	73·2	74·7	23·7	13 8	80·2	2 50	70·4	9
79·5	78·6	77·2	76·0	75·5	75·5	75·5	75·5	75·5	75·0	23·9	15 12	79·6	5 20	71·2	10
77·9	77·9	77·0	76·0	75·1	74·5	74·0	73·5	72·5	75·1	23·9	9 50	78·8	23 58	72·3	11
77·6	77·0	75·7	73·7	72·2	71·4	71·0	70·4	70·5	73·2	22·9	14 8	78·2	5 45	70·0	12
78·9	77·6	76·0	74·2	73·4	72·7	72·5	71·0	70·0	72·8	22·7	14 2	79.3	7 10	67·5	13
77·8	77·2	75·6	73·7	73·4	73·4	72·3	70·8	69·4	**72·4**	**22·4**	14 17	78·3	6 56	67·5	14
81·5	80·1	78·1	76·4	75·5	74·7	73·5	71·8	70·2	73·2	22·9	13 13	**82·5**	5 35	**65·8**	15
80·0	79.3	77·8	76·2	75·4	74·0	73·9	73·6	73·1	74·4	23·6	14 2	80·5	5 0	69·8	16
79·6	79·2	77·9	76·5	76·2	75·9	75·0	74·0	73·6	75·0	23·9	15 0	80·5	5 35	71·0	17
80·8	80·1	78·5	77·0	76·0	74·9	74·1	73·0	72·7	75·6	24·2	14 35	81·5	6 35	72·2	18
80·6	79·9	78·4	76·6	76·0	75·1	73·9	73·4	73·6	74·8	23·8	15 30	80·9	5 58	70·1	19
80·5	80·0	78·5	76·6	76·0	75·1	74·5	73·7	72·6	75·7	24·3	15 16	80·7	6 10	71·3	20
80·0	79·5	78·1	76·5	75·9	75·0	73·9	73.3	73·0	75·3	24·1	14 23	80·5	6 35	71·3	21
80·5	79·8	78·5	77·0	76·2	75·2	74·5	74·0	73·5	75·8	24·3	14 6	80·6	6 35	72·2	22
80·2	79·0	77·4	76·3	75·7	76·0	76.7	75·2	74·0	75·6	24·2	12 56	80·6	6 30	70·5	23
80·5	79·5	78·1	76·9	76·0	75·4	75·0	75·0	75·4	75·9	24·4	13 14	81·2	6 0	71·4	24
80·0	79·2	77·6	76.4	75·8	75·3	75·0	74·8	74·6	76·2	24·6	14 15	80·6	7 0	72·5	25
80·8	80·3	79·0	77·5	76·9	76·4	76·1	76·0	75·8	**77·1**	**25·1**	14 2	81·4	6 30	73·8	26
78·6	77·7	76·0	74·1	73·5	72·6	72·1	71·4	70·5	75·5	24·2	14 5	79·6	23 58	70·3	27
80·0	79·2	77·8	76·4	75·8	75·6	75·0	73·9	73·1	74·2	23·4	14 2	80·6	7 5	67·3	28
79·7	78·9	77·4	75·9	75·2	74·6	74·0	73·3	72·8	74·8	23·8					Mean.
+4·9	+4·1	+2·6	+1·1	+0·4	−0·2	−0·8	−1·5	−2·0							Variation.
26·5	26·0	25·2	24·4	24·0	23·7	23·3	22·9	22·7							Mean in °C.
+2·7	+2·2	+1·4	+0·6	+0·2	−0·1	−0·5	−0·9	−1·1							Variation in °C

(Averages for sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Date.	Hours (B. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	71·9	72·9	71·7	70·5	**69·6**	70·1	69·7	71·0	74·0	76·1	78·2	79·5	80·5	81·1	81·5
2	72·1	73·9	74·0	73·3	71·5	70·5	70·1	72·3	75·1	76·2	77·6	79·6	80·8	81·7	82·0
3	74·4	74·6	74·5	73·6	72·5	71·9	70·6	72·5	76·1	78·7	81·1	82·9	83·9	84·0	83·2
4	76·6	76·1	76·0	75·5	74·5	73·7	73·6	74·8	77·3	79·6	81·8	83·4	83·9	84·1	84·0
5	76·5	76·3	76·0	75·0	73·4	72·7	73·1	74·3	77·8	79·8	81·7	82·9	83·5	83·4	83·0
6	75·0	74·6	74·0	72·5	72·7	72·5	72·3	73·6	75·5	76·7	78·6	79·7	80·5	81·1	81·6
7	73·9	73·5	73·3	73·1	72·7	71·7	72·1	73·5	75·5	77·0	78·5	79·4	80·4	81·4	81·5
8	74·2	73·9	73·8	73·9	74·1	73·7	73·2	74·0	76·3	77·9	79·0	80·0	80·5	81·4	81·4
9	75·0	74·9	74·4	73·7	73·4	72·7	72·0	73·1	76·0	77·8	79·8	80·5	81·1	81·3	80·8
10	74·8	74·4	74·0	73·6	73·0	72·2	71·7	73·0	75·3	77·2	79·0	79·4	80·5	81·4	81·9
11	75·7	75·5	75·3	74·8	73·5	72·3	71·9	72·9	75·5	77·5	79·5	80·5	81·4	82·0	82·4
12	76·0	76·2	75·3	73·9	72·5	71·9	71·1	73·0	76·7	78·9	80·0	80·9	81·0	81·8	81·7
13	75·4	75·0	74·1	73·5	72·9	72·5	72·0	73·6	76·4	78·6	80·8	82·1	82·0	82·0	82·0
14	76·0	75·8	75·0	73·9	73·5	73·5	72·9	73·9	75·8	77·8	79·8	81·0	82·5	83·6	84·0
15	76·6	77·1	77·4	77·0	76·8	76·3	75·5	76·4	79·0	80·8	81·9	83·1	83·6	83·5	82·8
16	77·3	77·4	77·5	77·2	76·8	76·2	76·0	77·5	79·5	81·0	82·1	83·1	83·3	83·5	83·7
17	74·7	75·3	75·0	75·0	74·6	73·3	73·0	73·9	77·2	79·4	81·5	83·5	84·7	84·4	83·6
18	72·0	71·6	73·4	73·4	73·0	72·5	72·0	73·2	75·8	77·7	80·1	81·5	82·7	83·5	83·5
19	75·1	74·7	74·5	73·5	72·5	71·8	72·3	73·7	75·2	77·0	78·4	79·8	80·9	82·0	82·9
20	74·4	74·0	74·2	74·0	73·3	72·6	73·0	74·6	76·3	77·5	77·9	79·4	80·5	81·1	82·0
21	75·6	75·4	74·5	74·2	74·0	73·5	73·6	75·0	76·7	77·9	79·3	80·5	81·9	82·7	82·7
22	77·0	76·0	75·5	75·3	75·1	75·1	75·3	76·8	78·6	79·8	81·1	82·3	83·6	84·8	84·5
23	78·1	77·9	77·7	77·3	77·5	77·5	77·1	78·0	80·8	83·1	84·9	85·1	84·9	84·9	84·5
24	78·0	77·5	77·5	77·4	77·0	76·5	77·0	78·7	80·3	81·5	82·3	82·6	83·5	84·0	84·0
25	77·1	77·0	77·0	76·5	75·8	75·2	75·5	76·5	78·3	80·2	81·3	81·8	82·6	83·4	83·5
26	75·5	74·9	74·4	73·9	74·2	74·4	74·6	75·3	77·5	79·7	82·2	83·1	84·1	84·6	84·8
27	76·6	75·2	74·8	74·6	74·5	74·1	74·3	75·5	76·7	77·6	79·9	82·5	84·2	84·3	85·0
28	78·6	78·4	77·7	77·0	76·8	76·9	76·6	77·4	78·7	79·9	81·5	82·1	82·9	82·6	82·6
29	76·3	76·8	76·7	76·0	75·5	75·7	76·9	77·8	80·6	83·4	83·8	84·0	83·4	82·6	83·1
30	80·5	81·2	80·2	80·8	81·7	81·0	80·5	80·7	82·5	83·3	85·7	85·7	**88·0**	87·0	87·0
31	80·7	80·3	79·8	79·5	79·0	78·6	78·7	79·5	80·2	80·9	82·8	84·5	85·2	83·5	82 3
Mean .	75·9	75·8	75·5	74·9	74·4	74·0	**73·8**	75·0	77·3	79·0	80·7	81·8	82·7	83·0	**83·0**
Variation .	—2·4	—2·5	—2·8	—3·4	—3·9	—4·3	**—4·5**	—3·3	—1·0	+0·7	+2·4	+3·5	+4·4	+4·7	**+4·7**
Mean in °C .	24·4	24·3	24·2	23·8	23·6	23·3	**23·2**	23·9	25·2	26·1	27·1	27·7	28·2	28·3	**28 3**
Variation in °C.	—1·3	—1·4	—1·5	—1·9	—2·1	—2·4	**—2·5**	—1·8	—0·5	**+0·4**	+1·4	+2·0	+2·5	+2·6	**+2·6**

APRIL.

1	77·5	77·4	77·6	78·0	77·8	77·4	76·7	78·0	79·3	81·3	81·7	82·1	82·4	82·7	81·9
2	77·6	77·0	76·5	76·9	76·9	76·4	76·5	77·4	80·6	82·0	83·3	84·1	86·4	85·6	85·4
3	80·0	80·4	80·3	80·3	80·1	79·3	79·3	81·0	84·1	86·3	87·0	87·0	87·3	87·1	86·4
4	79·0	78·7	78·5	78·0	77·6	77·2	77·0	78·1	80·7	83·0	84·1	84·5	85·0	85·1	84·5
5	75·2	75·0	74·7	74·6	74·5	73·9	74·7	76·2	77·6	79·0	80·4	81·5	82·3	82·4	82·1
6	75·4	75·3	74·1	**73·5**	73·5	73·5	73·8	75·3	77·5	79·4	81·0	82·5	83·5	83·7	83·5
7	76·0	75·6	75·5	74·9	74·0	74·2	74·6	76·0	77·9	79·9	81·6	82·5	83·5	83·8	84·0
8	76·0	75·5	74·7	74·4	74·4	74·7	75·1	76·4	77·9	79·2	80·7	82·0	83·2	84·0	83 9
9	76·2	76·5	75·7	74·8	75·2	75·4	75·6	77·0	79·4	80·6	81·4	82·0	83·0	83 7	83·9
10	77·4	76 4	76·0	76·6	76·4	76·1	76·4	77·7	80·0	81·2	82·1	83·0	83·6	84 0	84 0
11	78·6	78·5	78·4	78·5	78·2	77·3	77·4	78·5	81·1	82·6	83·7	84·6	85·0	84·9	85·5
12	78·5	78·0	77·3	77·2	77·5	77·1	77·1	78·5	80·5	82·3	83·3	84·5	85·4	85·7	86·0
13	79·0	78·4	78·3	77·4	76·5	76·5	76·9	79·1	81·2	83·0	84·3	85·0	86·1	86·7	87·5
14	79·9	79·2	79·0	79·3	78·5	77·6	78·7	81·6	83·7	85·0	85·5	86·7	86·5	86·5	86·5
15	81·4	81·0	81·0	80·9	80·6	79·6	80·0	81·4	83·1	84·9	85·6	86·5	86·7	86·9	86 6
16	80·6	80·5	80·4	80·2	80·5	80·5	80·6	81·3	82·4	83·9	84·9	85·5	86·5	87·0	**87·0**
17	80·8	80·7	81·0	81·3	81·0	81·0	81·2	82·0	83·5	84·4	85·4	86·0	86·6	86·7	87·0
18	82·1	81·7	81·7	81·6	82·1	82·2	82·3	82·9	83·9	85·5	86·5	87·5	88·1	88·6	89·2
19	81·5	81·5	81·7	81·7	81·9	81·8	82·2	83·3	85·0	86·5	87·5	88·5	89·3	89·5	89·6
20	83·8	83·5	83 4	83·2	83·0	83·0	83·4	84·5	85·8	86·8	87·6	88.2	88·3	87·9	88·0
21	82·5	82·4	82·3	82·4	81·9	81·5	81·8	83·1	84·5	85·8	86·5	86·6	87·9	88·4	87·9
22	81·1	80·6	80·5	80·1	80·2	80·5	81·1	82·5	84·2	85·5	86·4	87·4	87·6	88·5	88·6
23	82·5	82·5	82·0	81·5	81·5	81·6	82·3	83·3	84·7	86·3	87·3	87·7	88·5	88·7	88·7
24	82·3	82.1	81·8	81·6	81·5	81·3	81·6	83·0	84·7	85·6	86·3	87·3	88·2	88·5	87·8
25	81·5	81·4	81·3	81·0	80·6	80·2	80·2	82·1	83·7	84·9	85·6	86·6	87·1	87·5	87·7
26	81·0	80·6	80·5	80·1	79·6	79·3	79·3	80·6	83·0	83·2	84·9	86·0	87·0	87·8	87·8
27	81·5	80·8	80·0	79·6	79·2	78·5	79·1	81·2	84·7	86·7	87·6	88·3	88·5	88·8	88·9
28	83·5	82·9	81·1	80·2	79·8	80·0	80·9	82·7	84·9	85·7	87·3	88·5	89·0	89·5	89·7
29	81·0	80·4	79·9	79·7	79·5	79·7	80·6	82·5	84·1	85·5	86·5	87·6	88·5	88·8	88·8
30	81·4	81·3	81·0	80·5	80·3	79·9	80·6	82·1	84·3	86·1	88·5	89·7	**90·9**	90·4	90·0
Mean .	79·8	79·5	79·2	79·0	78·8	**78·6**	78·9	80·3	82·3	83·7	84·8	85·7	86·4	**86·6**	86·6
Variation .	—2·5	—2·8	—3·1	—3·3	—3·5	**—3·7**	—3·4	—2·0	0·0	+1·4	+2·5	+3·4	+4·1	**+4·3**	+4·3
Mean in °C .	26·6	26·4	26·2	26·1	26·0	**25·9**	26·1	26·8	27·9	28·7	29·3	29·8	30·2	**30·3**	30·3
Variation in °C.	—1·3	—1·5	—1·7	—1·8	—1·9	**—2·0**	—1·8	—1·1	0·0	+0·8	+1·4	+1·9	+2·3	**+2·4**	+2·4

(Averages for sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Hours. (B. M. T.)									Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21 - 22	22—23	23—24	°F	°C	Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
81·1	80·2	78·9	77·0	76·4	75·5	74·1	73·2	72·5	**75·3**	**24·1**	14 25	81·7	6 50	**69·4**	1
81·6	81·0	79·4	77·6	77·2	76·4	75·2	74·4	73·5	76·1	24·5	14 30	82·4	6 30	69·8	2
82·3	81·5	80·5	79·4	79·3	79·2	78·1	77·3	76·7	77·9	25·5	13 5	84·7	6 50	70·1	3
84·1	83·5	82·5	81·5	80·0	79·2	78·2	77·4	77·2	79·1	26·2	12 10	84·5	6 5	68·2	4
82·5	81·6	80·1	78·5	77·7	77·0	76·5	75·5	75·0	78·1	25·6	12 20	83·6	5 50	72·6	5
81·5	80·5	78·9	77·0	76·3	75·6	74·7	74·0	73·4	76·4	24·7	15 9	82·0	6 30	72·0	6
81·5	80·9	79·6	77·9	76·8	76·1	75·2	73·9	73·6	76·4	24·7	14 53	82·2	5 30	71·5	7
81·0	80·4	79·1	77·8	77·2	76·5	76·0	75·5	75·4	76·9	24·9	14 50	81·6	6 20	73·0	8
80·1	79·4	78·3	77·3	77·0	77·0	77·0	76·5	75·5	76·9	24·9	12 10	81·6	6 40	71·8	9
82·0	81·2	80·2	79·0	78·2	77·7	77·3	76·5	76·1	77·1	25·1	14 30	82·5	6 35	71·5	10
82·0	81·5	80·4	78·6	78·0	77·5	76·4	75·7	76·0	77·4	25·2	13 17	82·6	6 42	71·7	11
81·4	80·7	79·3	77·6	77·0	76·6	76·4	75·1	75·3	77·1	25·1	13 45	82·5	6 3	70·9	12
81·6	81·2	80·0	78·8	78·6	78·5	77·6	76·7	76·4	77·6	25·3	11 55	82·6	6 30	71·9	13
84 3	83·3	81·8	80·5	80·0	79·6	79·2	78·3	77·4	78.5	25·8	15 54	84·5	6 40	72·7	14
83·3	82·6	81·3	80·0	79·6	79·5	78·5	78·0	77·4	79·5	26·4	13 15	84·2	6 47	75·3	15
83·5	82·7	81·6	79·7	78·5	78·0	77·1	76·0	75·6	79·4	26·3	14 30	84·3	6 35	75·4	16
82·8	81·6	80·0	77·9	77·0	76·0	74·9	73·5	72·5	77·7	25·4	12 55	85·5	23 55	72·3	17
83·5	82·3	80·6	78·3	77·5	76·6	76·0	75·6	75·5	77·2	25·1	14 56	84·0	1 40	71·4	18
82·9	82·1	80·5	78·5	77·7	77·0	76·5	75·5	74·9	77·1	25·1	14 24	83·5	5 16	71·6	19
81·9	80·7	79·4	77·6	77·2	76·7	76·5	76·1	76·0	77·0	25·0	15 16	82·5	5 40	72·5	20
82·0	81·6	81·0	79·6	79·3	79·0	78·3	77·6	77·5	78·1	25·6	13 19	83·0	6 20	73·3	21
84·0	83·5	82·5	81·5	81·1	80·4	79·5	78·6	78·5	79·6	26·4	13 58	85·0	5 58	75·0	22
83·5	82·1	81·3	80·0	80·0	79·8	79·7	78·8	79·2	80·6	27·0	10 54	85·5	6 40	77·0	23
83·6	82·7	81·5	80·1	79·6	79·3	78·5	77·6	77·5	79·9	26·6	13 56	84·5	6 3	76·4	24
83·7	83·0	82·0	80·1	79·2	78·3	76·8	76·3	76·4	79·1	26·2	15 40	84·0	5 30	75·0	25
85·0	84·0	82·6	80·5	79·6	78·5	77·4	76·6	76·6	78·9	26·1	15 19	85·5	3 20	74·0	26
85·0	84·0	82·7	80·8	80·0	79·5	79·1	78·6	78·6	79·1	26·2	14 38	85·5	6 2	73·9	27
83·4	82·4	80·5	79·4	79·2	79·2	78·5	77·6	76·9	79·5	26·4	15 25	84·0	6 40	76·5	28
82·5	82·9	82·3	82·3	82·0	81·0	80·2	80·4	80·4	80·3	26·8	9 54	84·6	4 20	75·4	29
86·3	84·5	83·5	82·3	81·7	81·5	81·5	81·5	81·4	**82·9**	**28·3**	12 25	**88·6**	2 33	79·9	30
81·4	80·5	79·5	79·0	79·0	79·1	78·6	77·8	77·8	80·3	26·8	12 17	86·0	22 50	77·5	31
82·8	81·9	80·7	79·2	78·6	78·1	77·4	76·6	76·3	78·3	25·7					Mean.
+4·5	+3·6	+2·4	+0·9	+0·3	—0·2	—0·9	—1·7	—2·0							Variation.
28·2	27·7	27·1	26·2	25·9	25·6	25·2	24·8	24·6							Mean in °C.
+2·5	+2·0	+1·4	+0·5	+0·2	—0·1	—0·5	—0·9	—1·1							Variation in °C

APRIL.

82·4	82·5	81·1	79·4	78·9	78·6	78·5	78·4	78·3	79·6	26·4	13 53	83·7	6 15	76·6	1
85·3	84·8	83·5	82·4	82·1	82·0	81·6	80·9	80·3	81·1	27·3	12 35	87·3	5 20	76·3	2
86·2	85·5	83·7	82·4	82·0	81·6	80·5	79·3	78·8	82·7	28·2	13 4	87·4	6 0	78·7	3
84·1	83·0	81·2	79·4	78·5	77·6	76·9	75·9	75·5	80.1	26·7	12 50	85·5	23 42	75·3	4
81·6	80·9	79 5	78·0	77·4	76·6	76·0	75·4	75·3	**77·7**	**25·4**	13 10	85·0	5 13	73·8	5
82·9	82·0	80·5	79·0	78·3	77·6	77·3	76·8	76·5	78·2	25·7	13 18	84·2	3 50	**73·2**	6
83·6	82·7	81·4	79·5	78·5	77·8	76·9	76·2	76·0	78·6	25·9	14 35	84·5	4 33	73·9	7
83·6	83·0	81·6	79·8	79·2	78·5	77·9	76·8	76·5	78·7	25·9	13 20	84·5	4 10	73·9	8
83·7	83·4	82·0	80·3	79·3	78·6	78·4	78·0	77·6	79·2	26·2	14 10	84·5	4 2	74·5	9
84·0	83·6	82·1	80·7	80·0	79·5	79·4	79·0	79·1	79·9	26·6	13 56	84·5	2 38	75·5	10
85·2	84.2	82·5	81·1	80.8	80·0	79·5	79·0	78·6	81·0	27·2	14 25	85·7	6 20	76·8	11
86.0	85.1	84·0	82·2	81·5	81·0	80·5	80·0	79·6	81·2	27·3	15 10	86·5	6 10	76·8	12
88·6	88·2	86·5	85·3	84·8	83·9	83·0	82·4	81·5	82·5	28·1	16 7	88·8	5 55	76·4	13
86·5	85.8	84·6	83·1	82·5	82·3	82·3	82·0	81·6	82·7	28·2	11 40	87·2	5 20	77·5	14
86·5	85·3	84.1	82·8	82·3	81·6	81·4	81·2	81·0	83 0	28·3	14 2	87·1	5 58	79·4	15
86·3	85·7	84·3	83·0	82.6	82·0	81.8	81·5	81·1	82·9	28·3	13 40	87·4	3 50	80·0	16
86·9	86.0	84·9	83·6	83·2	82·7	82·6	82·6	82·5	83·5	28·6	15 0	87·4	6 2	80·9	17
88·9	87.0	86·1	85·5	85·0	82·9	82·9	83·2	82.5	84·6	29·2	14 5	90·5	3 20	81·5	18
88·6	87.4	86·0	85·0	84·7	84·8	84·7	84·5	84·3	**85·1**	**29.5**	12 29	89·9	0 30	81·0	19
87·8	86.5	85·5	84·3	83·5	83·4	83·2	83·1	82·9	85·0	29·4	12 30	89·0	5 5	82·8	20
87.6	86·7	85.7	83·7	83·0	82·6	82·3	81·7	81·5	84·2	29·0	13 20	88·7	5 50	81·5	21
88.4	87.6	86·2	84·5	83·7	83·5	83·1	82·8	82·7	84·1	28·9	14 18	89·4	3 58	80·0	22
88.5	87.2	85.5	84·0	83·5	83·0	82·6	82.5	82·5	84·5	29·2	14 30	89·2	3 40	81·4	23
87.5	86.4	84·9	83·1	82·4	82·0	81·8	81·6	81·5	83·9	28.8	13 14	88·8	5 30	81·2	24
86.9	86.1	84·5	83·0	82·5	82·1	81·8	81·5	81·2	83·4	28·6	14 5	88·1	6 5	79·6	25
87.7	86.5	84.9	83·0	82·5	82.2	81·7	81·6	81·7	83·0	28·3	13 50	88·5	5 50	79·1	26
88.6	88.0	87·8	86·8	86·0	85·1	84·4	83·5	83·3	84·5	29·2	14 15	89.5	5 58	78·4	27
89 4	88.0	86·4	84·6	83·9	83.5	83·0	82·7	82·2	84·6	29.2	14 31	90·0	4 27	79·6	28
88.4	87.4	85·8	84·0	83·0	82.7	82·7	82·5	82·0	83·8	28·8	14 9	89·3	4 17	79·4	29
88.9	87.6	85·5	83·5	82·5	82·0	81·6	81·3	80·8	84·2	29·0	13 0	**91·5**	5 58	79·6	30
86·4	85·5	84·1	82·6	81·9	81·4	81·0	80·6	80·3	82·3	27·9					Mean.
+4·1	+3·2	+1·8	+0·3	—0·4	—0·9	—1·3	—1·7	—2·0							Variation.
30·2	29·7	28·9	28·1	27·7	27·4	27·2	27·0	26·8							Mean in °C.
+2·3	+1·8	+1·0	+0·2	—0·2	—0·5	—0·7	—0·9	—1·1							Variation in °C

(Averages for sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Date.	Hours (B. M. T.)														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	80·5	80·1	80.0	79·5	79·2	79.1	79·5	80·7	81·9	83·5	85·0	85·4	86·1	86·3	86·4
2	80·1	80·0	79.9	79·7	79·2	78.8	79·5	80·7	82·4	83·9	85·3	86·5	87·0	87·1	86·8
3	81·5	81·0	80·1	79·7	80·2	79·8	80·0	81·6	83·6	84·9	86·2	87·0	87·5	87·7	88·1
4	81·4	81·0	80·7	80·5	79·7	79·6	80·7	81·9	83·5	84·4	85·3	86·1	87·1	87·6	87·8
5	81·4	80·5	80·0	79·5	79·3	79·2	79·9	81·5	84·2	84·8	86·0	87·2	88·2	88·9	89·1
6	80·7	80·5	80·4	80·0	79·3	78·8	79·6	81·5	83·8	85·1	85·7	86·7	87·3	87·5	87·8
7	81·6	81·5	81·4	81·2	81·0	80·8	81·5	82·6	84·1	84·9	86·1	86·9	87·6	87·6	88·0
8	81·1	80·8	80·5	80·1	79·7	79·4	80·1	81·5	83·3	84·5	85·7	86·4	87·2	87·5	87·5
9	81·0	80·6	80·3	79·6	79·2	78·6	79·8	81·1	83·2	84·0	85·2	85·4	86.6	87·4	87·1
10	81·3	81·0	80·6	80·4	80·2	79·9	80·7	81·5	82·6	83·7	86·0	87·1	88·0	88 2	87·6
11	81·5	81·5	81·5	81·6	81·5	81·0	81·1	82·2	84·0	86·0	87·0	87·5	87·5	87·6	87·0
12	81·6	81·6	81·5	81·5	81·5	81·5	81·9	82·9	84·6	85·6	87·0	87·7	88·0	87·5	87·5
13	82·9	82·6	82·4	82·0	81·6	81·6	82·0	82·5	84·3	85·4	86·5	87·4	87 7	87·8	87·8
14	81·7	81·4	80·9	80·6	80·6	80·6	81·5	82·6	85·0	86.3	87·2	87·9	88·3	88·1	88·5
15	82·5	82·5	82·2	81·5	81·2	80·8	81·5	83·2	85·3	86·7	88·0	88·4	88·6	88·5	88·2
16	82·4	82·1	81·5	80·8	80·7	80·6	81·1	82·4	84·3	85·6	86·8	87·5	88·0	88·2	87·8
17	81·5	81·5	81·5	80·8	80·2	80·0	80·7	82·0	84·1	85·5	86·5	87·1	87·4	87·5	87·6
18	82·4	82·2	81·9	81·7	81·6	81·7	82·4	83·5	85·5	86·6	87·5	88·2	88·6	88·6	88·3
19	83·1	83·0	82·8	82·6	82·5	82·5	83·1	84·0	86·1	87·0	87·9	88·3	88·5	88·9	88·6
20	83·2	83·0	82·6	82·6	82·6	82·6	83·3	84·2	85·5	86·8	88·2	88·5	88·9	89·2	89·2
21	83·4	83·2	82·9	82.6	82·5	82·4	83.0	84·5	86·0	87·3	87·8	88·1	88·6	88·6	88·8
22	83·5	83·3	82·9	82·7	82·5	82·3	82·8	84·1	85·6	86·5	87·5	87·8	88·8	89·3	89·0
23	83·7	83·5	83·3	83·0	82·7	82·6	83·3	84·3	85·9	86·8	87·9	88·5	89·6	90·2	90·0
24	83·3	83·0	82·5	82·4	82·2	82·4	82·8	83·8	84·6	86.1	87·5	88·2	89·0	89·3	89·5
25	82·7	82·5	82·5	82·6	82·5	82·4	82·8	84·0	85·2	86·6	87·8	88·5	88·7	89·0	89·4
26	82·5	82·5	82·0	82·0	81·5	81·4	82·1	83·1	85·0	86·1	87·3	88·1	88·6	89·0	88·7
27	83·1	82·7	82·6	82·5	82·5	82·5	83·1	84·0	85·9	86·8	88·0	88·4	89·2	89·0	88·9
28	83·0	82·9	82·7	82·6	82·6	82·6	83·1	83·8	85·6	87·1	88·0	88·8	89·3	89·5	89·5
29	83·5	83·0	82·6	82·6	82·6	82.5	83·2	84·0	85·5	86·7	88·0	88·2	88·8	88·9	89·0
30	83·2	82·9	82·6	82·5	82·5	82·5	83·0	83·9	85·1	86·1	86·6	88·0	88·0	88·3	88·5
31	83·3	83·0	82·6	82·5	82·6	82·6	83·1	84·1	85·5	86·5	87·4	88·1	88·5	89·0	89·0
Mean. .	82·2	82·0	81·7	81·4	81·2	81·1	81·7	82·8	84·6	85·7	86·9	87·5	88·1	88·3	88·3
Variation. .	—2·1	—2·3	—2·6	—2·9	—3·1	—3·2	—2·6	—1·5	+0·3	+1·4	+2·6	+3·2	+3·8	+4·0	+4·0
Mean in °C. .	27·9	27·8	27·6	27·4	27·3	27·3	27·6	28·2	29·2	29·8	30·5	30·8	31·2	31·3	31·3
Variation in °C.	—1·2	—1·3	—1·5	—1·7	—1·8	—1·8	—1·5	—0·9	+0·1	+0·7	+1·4	+1·7	+2·1	+2·2	+2·2

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1	83·3	83·0	82·6	82·6	82·5	82·5	83·1	84·5	86·1	87·2	88·0	88·6	89·0	89·3	89·5
2	83·5	83·5	83·2	83·0	83·1	83.1	83·6	84·5	86·3	87·5	88·5	89·3	89·5	89·5	89·6
3	83·9	83·7	83·6	83·6	83·6	83·6	84·0	84·8	86·6	88·1	88·5	89·4	89·4	90·0	89·7
4	84·2	84.1	83·5	83·5	83·5	83·5	83·9	85·1	86·8	88·0	89·0	89·5	90·0	90·0	90·1
5	84·1	83·7	83·6	83·5	83·4	83·2	83·6	84·7	86·2	87·0	88·3	89·0	89·3	89·4	89·3
6	83·5	83·3	82·9	82·8	82·6	82·6	83·7	84·4	86·4	87·4	88·3	89·3	89·5	90·0	89·7
7	84·0	83·6	83·5	83·5	83·4	83·4	83·8	84·8	86·1	87·1	88·1.	88·6	89·4	89·6	89·6
8	84·5	84·4	84·1	84·3	84·1	84·1	84·5	85·6	87·0	88·0	88·6	89·1	90·0	90·1	90·0
9	85·1	84·9	84·6	84·5	84·4	84·3	84·7	85·6	87·4	88·6	89·6	90·3	90·5	90·5	90·4
10	85·5	85·2	84·7	84·5	84·4	84·3	84·6	86·0	87·5	89·0	89·6	90·2	90·6	91·2	91·1
11	85·5	85·4	85·1	84·9	84·9	84·5	84·9	86·0	87·5	88·6	89·0	90·1	91·5	92·0	91·8
12	86·6	85·3	80·5	78·4	79·3	79·7	81·0	81·5	82·0	82·6	84·1	85·8	86·5	87·8	88·9
13	80·3	80·4	80·8	81·4	81·1	80·7	81·5	82·5	83·8	85·2	87·4	89·6	89·9	88·4	87·9
14	81·8	81·3	80·3	80·0	80·0	80·0	80·0	80·9	82·3	84·5	86·1	87·5	87·3	85·1	83·1
15	79·8	80·3	80·0	80·1	80·5	80·8	81·0	82·1	83·6	85·2	86·5	87·3	87·6	87·6	87·3
16	81·4	81·2	80·6	80·7	80·5	80·2	80·3	81·8	82·0	83·7	84·0	84·0	83·9	83·8	83·8
17	81·5	81·5	81·7	82·5	81·6	81·7	81·0	80·6	80·0	80·0	83·0	83·0	81·2	81·3	82·5
18	82·9	82·0	81·0	81·5	81 3	80·8	80·9	81·9	83·6	82·8	83·0	81·0	82·0	83.4	82·3
19	80·5	80·6	80·7	80·3	79·5	79·4	78·8	79·1	81·0	80·2	79·5	78·9	79·8	80·6	80·9
20	79·1	80·0	80·2	80·2	78·5	76·5	77·0	76·2	77·3	77·6	77·5	77·9	78·4	78·6	77·8
21	80·4	80·5	80.6	80·4	78·5	79·0	78·6	79·2	80·6	79·4	80·1	81·0	79.9	80·4	80·5
22	78·4	78·3	78·5	77·8	79·3	81·5	81·0	81·8	79·8	78·9	79·0	78·6	80·1	81·2	80·1
23	82·6	82·6	82·6	82·6	82·6	82·6	82·6	82·7	83·2	83·5	83·8	84·5	84·5	84·5	85·0
24	81·6	81·5	81·3	81·5	81·4	80·6	80·5	81·5	82·9	80·6	81·0	80·0	80·4	81·6	81.6
25	80·2	80.5	79·3	79·4	81·0	81·3	81·5	81·0	82·0	81·7	82·0	81·5	81·5	83·0	84·4
26	81·6	81·6	81.7	80·6	81·5	81·5	80·5	80.3	81·2	83·0	84·6	84·0	81·6	80·8	81·6
27	81·0	81·0	81·2	81·5	81·3	80·7	80·6	80·0	81·6	82·2	80·9	81·0	82·9	84·5	85·0
28	82·3	82·1	82·4	82·5	82·5	81·9	82·0	82.0	82·4	83·5	83·5	84·3	84·4	83·8	83·5
29	82·2	82·4	82·0	81·7	81.7	81·4	81·3	81·0	81·5	82·0	82 2	82·8	82·8	82.2	82·0
30	80·5	80·5	80·3	80·4	80·2	80·1	82·1	82·5	83·3	84·2	84·9	85·5	85·9	85·6	85·6
Mean. .	82·4	82·3	81·9	81·8	81·7	81·7	81·9	82·5	83·6	84·2	85·0	85·4	85·6	85·9	85.8
Variation.	—1·1	—1·2	—1·6	—1·7	—1·8	—1·8	—1·6	—1·0	+0·1	+0·7	+1·5	+1·9	+2·1	+2·4	+2·3
Mean in °C. .	28·0	27·9	27·7	27·7	27·6	27·6	27·7	28·1	28·7	29·0	29·4	29·7	29·8	29·9	29·9
Variation in °C.	—0·6	—0·7	—0·9	—0·9	—1·0	—1·0	—0·9	—0·5	0+·1	+0·4	+0·8	+1·1	+1·2	+1·3	+1·3

(Averages for sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Hours (B. M. T.).									Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	°F	°C	Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
86·0	84·9	83·4	81·7	81·4	81·0	80·5	80·5	80·5	**82·2**	**27·9**	13 47	86·7	5 45	78·7	1
86·5	86·0	84·8	83·5	82·8	82·6	82·5	82·1	82·0	82·9	28·3	13 32	87·5	5 30	78·6	2
87·6	86·6	85·5	84·1	83·5	82·9	82·5	82·3	81·7	83·6	28·7	14 47	88·5	6 0	79·5	3
87·5	86·5	85·0	83·6	82·9	82·5	82·1	81·6	81·5	83·4	28·6	14 30	88·4	5 2	79·5	4
88·4	87·6	86·0	84·0	83·4	83·0	82·7	82·3	81·5	83·7	28·7	14 10	89·5	4 54	79·0	5
87·7	87·0	85·5	84·0	83·4	82·9	82·6	82·4	82·0	83·4	28·6	14 16	88·1	5 30	78·6	6
87·5	86·2	84·6	83·0	82·5	82·3	82·0	81·6	81·5	83·7	28·7	14 20	88·4	5 30	80·7	7
87·0	86·3	84·8	83·5	82·7	82·4	82·0	81·6	81·4	83·2	28·4	14 9	88·0	5 10	79·1	8
87·0	85·6	84·5	83·4	82·6	82·2	81·9	81·5	81·3	82·9	28·3	14 29	87·6	5 30	**78·5**	9
87·4	86·4	84·8	83·1	82·5	82·4	82·0	81·5	81·5	83·3	28·5	12 53	88·6	5 35	79·6	10
86·3	85·5	83·9	82·6	82·8	83·3	83·1	82·4	81·9	83·8	28·8	13 10	88·5	6 15	80·6	11
87·6	87·2	85·7	84·5	84·1	83·4	83·4	83·4	83·3	84·4	29·1	12 15	88·6	4 30	81·4	12
87·3	86·5	85·0	83·5	83·0	82·6	82·5	82·6	82·3	84·2	29·0	13 33	88.6	5 30	81·5	13
88·2	87·8	86·2	84·5	83·6	83·4	83·3	82·8	82·5	84·3	29·1	14 14	89·1	3 58	80·5	14
87·8	86·9	85·1	83·5	82·7	82·5	82·5	82·5	82·5	84·4	29·1	13 6	89·5	5 58	80·6	15
87·3	86·5	84·9	83·2	82·5	82·2	82·0	81·8	81·6	83·8	28·8	13 52	88·7	5 45	80·5	16
87·9	87·3	86·3	84·8	84·0	83·5	83·3	82·9	82·6	84·0	28·9	15 0	88·1	5 45	79·8	17
88·0	87·0	86·0	84·7	84·3	84·0	83·7	83·6	83·3	84·8	29·3	12 54	88·9	4 30	81·5	18
88·2	87·5	86·5	85·0	84·5	84·3	84·1	83·6	83·5	85·3	29·6	13 53	89·3	5 10	82·4	19
88·7	88·3	87·0	85·6	85·3	84·5	84·2	83·7	83·5	85·5	29·7	13 10	89·5	5 30	82·5	20
88·7	88·4	87·2	85·6	85·1	84·5	84·4	84·0	83·6	85·5	29·7	15 45	89·2	5 10	82·4	21
89·2	88·7	87·5	86·1	85·3	84·7	84·5	84·3	84·0	85·5	29·7	13 20	89·7	5 20	82·6	22
89·0	89·0	87·6	85·8	84·9	84·4	84·0	83·6	83·5	**85·8**	**29·9**	14 28	**90·7**	5 45	82·3	23
89·3	88·2	86·9	85·2	84·6	84·4	83·9	83·6	83·5	85·3	29·6	14 13	89·8	4 45	82·4	24
88·7	88·0	86·5	84·8	84·0	83·5	83·5	83·2	82·8	85·1	29·5	13 35	89·5	6 10	82·0	25
88·5	87·5	86·1	84·6	84·0	83·5	83·5	83·3	83·1	84·7	29·3	13 13	89·5	5 20	81·3	26
88·6	87·5	86·0	84·7	84·4	84·0	83·5	83·4	83·2	85·2	29·6	14 5	90.0	5 50	82·4	27
89·0	87·8	86·1	84·8	84·4	84·0	84·8	83·5	83·5	85·4	29·7	14 12	90.5	4 25	82·4	28
88·7	87·7	86·8	85·4	84·9	84·5	84·0	83·6	83·4	85·3	29·6	14 12	89·7	5 30	82·4	29
88·1	87·0	86·4	85·0	84·5	84·3	84·0	83·5	83·5	85·0	29·4	12 57	88·7	5 40	82·4	30
88·8	88.0	86·6	85·5	84·9	84·5	84·3	83·6	83·5	85·3	29·6	14 8	89·5	4 2	82·5	31
88·0	87·1	85·8	84·3	83·7	83·4	83·1	82·8	82·6	84·3	29·1					Mean.
+3·7	+2·8	+1·5	0·0	—0·6	—0·9	—1·2	—1·5	—1·7							Variation.
31·1	30·6	29·9	29·1	28·7	28·6	28·4	28·2	28·1							Mean in °C.
+2·0	+1·5	+0·8	0·0	—0·4	—0·5	—0·7	—0·9	—1·0							Variation in °C

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89·1	88·5	87·3	86·1	85·6	85·0	84·5	84·2	83·9	85·7	29·8	15 37	89·3	5 25	82·5	1
89·4	88·7	87·8	86·4	85·6	85·1	84·7	84·5	84·4	86·0	30·0	12 51	90·0	5 30	83·0	2
89·4	88·9	87·9	86·2	85·6	85·3	85·2	84·6	84·4	86·3	30·2	14 50	90·3	6 2	83·5	3
89·7	89·0	87·6	86·3	85·6	85·3	85·1	84·5	84·5	86·3	30·2	13 17	90·5	5 30	83·4	4
89·2	88·7	87·2	85·5	84·9	84·5	84·4	84·2	83·9	85·9	29·9	13 15	90·0	5 40	83·0	5
89·5	89·0	87·5	86·3	85·5	85·1	84·6	84·5	84·4	85·9	29·9	13 30	90·4	5 20	82·6	6
89·6	89·3	88·1	86·6	86·0	85·5	85·3	84·7	84·6	86·2	30·1	14 33	90·4	5 0	83·1	7
90·0	89·5	88·5	87·2	86·5	86·0	85·7	85·6	85·5	86·8	30·4	12 30	90·5	3 0	84·0	8
90·4	89·7	89·0	87·5	86·6	86·4	86·2	85·7	85·5	87·2	30·7	12 54	91·5	5 30	84·3	9
90·9	90·0	89·0	87·4	86·6	86·4	86·4	86·0	85·6	87·4	30·8	13 10	91·5	5 45	84.2	10
91·7	90·8	89·1	88·5	87·9	87·5	87·3	87·0	87·0	**87·9**	**31·1**	13 30	**92·5**	5 30	84·4	11
89·1	87·9	86·7	86·2	77·9	78·7	79·8	80·6	80·6	83.2	28·4	14 34	89·3	19 31	76·9	12
87·4	86·6	86·1	85·3	84·9	84·3	83·5	83·0	82·7	84·4	29·1	12 30	90·5	0 5	80·2	13
82·4	81·4	81·3	81·6	81·5	81·4	81·3	80·6	80·7	82·2	27·9	11 27	87·6	4 10	79·6	14
85·0	85·0	84·6	84·3	83·5	83·5	83·0	82·4	82·2	83·5	28·6	12 41	88·1	0 30	79·0	15
83·5	83·6	82·5	80·5	80·9	81·2	81·4	81·6	81·9	82·0	27·8	10 9	85·6	18 11	79·7	16
83·7	83·7	82·5	82·5	82·9	82·9	82·7	83·0	83·0	82·1	27·8	11 20	84·4	9 0	79·5	17
79·4	78·3	78·3	78·6	79·5	79·1	78·5	79·3	79·1	80·9	27·2	9 10	84·4	17 0	77·9	18
81·5	81·4	80·7	80·2	80·8	80·7	80·8	81·3	79·9	80·3	26·8	9 17	81·7	6 33	78·3	19
76·7	77·6	78·4	78·3	79·0	79·5	79·9	80·2	80·2	**78·4**	**25·8**	12 55	80·4	7 20	**75·6**	20
78·4	79·0	79·4	79·2	79·0	79·7	79·7	80·3	80·0	79·7	26·5	11 44	82·0	15 20	78·1	21
81·1	82·1	82·5	82·6	82·5	82·5	82·6	82·6	82·4	80·6	27.0	23 0	82·7	4 20	77·5	22
83·2	82·9	82·4	82·6	81·6	82·0	82·2	82·3	82·2	83·0	28·3	14 29	85·4	16 50	81·5	23
79·0	79·3	79·4	79·0	79·6	80·2	79·1	80·0	79·7	80·6	27·0	8 57	83·6	21 4	78.3	24
84·0	84·0	83·6	83·0	82·5	82·5	82·5	82·5	81·9	81·9	27·7	14 55	84·6	2 50	78.5	25
83·5	80·2	80·9	82·0	82·0	81·3	81·0	81·6	81·5	81·7	27·6	10 35	85·0	8 2	79·2	26
84·4	84·0	83·4	82·7	82·5	82·3	82·5	82·3	82·1	82·1	27·8	14 34	85·3	7 24	78·8	27
84·0	83·3	81·2	82·0	82·4	82·0	82·4	82·5	82·5	82·7	28·2	11 55	84·7	17 10	81·0	28
81·9	81·6	81·5	81·5	81·4	81·2	80·6	80.5	80·5	81·7	27·6	12 0	83·1	6 58	79·5	29
84·1	83·5	83·2	82·4	80·0	81·1	81·5	81·5	81·5	82·5	28·1	12 45	86·2	19 4	79·4	30
85·4	84·9	84·3	83·6	83·0	82·9	82·8	82·8	82·6	83·5	28·6					Mean.
+1·9	+1·4	+0·8	+0·1	—0·5	—0·6	—0·7	—0·7	—0·9							Variation.
29·7	29·4	29·1	28·7	28·3	28·3	28·2	28·2	28·1							Mean in °C.
+1·1	+0·8	+0·5	+0·1	—0·3	—0·3	—0·4	—0·4	—0·5							Variation in °C

AIR TEMPERATURE, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

JULY.

(IN DEGREES FAHRENHEIT.)

Date.	Hours (B. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	82·0	82·0	82·3	82·0	82·2	82·1	82·1	82·7	83·6	81·5	83·0	84·2	84·7	84·5	83·5
2	81·6	81·5	81·6	81·3	81·2	80·4	81·0	82·0	81·0	82·0	82·2	81·4	83·3	82·0	83·2
3	81·7	81·5	81·5	81·5	81·0	80·9	81·6	82·2	83·5	84·6	84·6	84·3	84·7	81·9	82·7
4	81·4	81·6	81·5	81·5	81·4	81·6	81·8	82·0	82·6	83·9	84·5	84·0	84·1	84·5	84·5
5	81·7	81·6	81·6	81·4	81·4	81·5	81·8	81·7	81·6	83·2	82·3	80·6	81·1	80·9	80·7
6	81·0	80·8	80·6	80·6	80·6	79·7	80·4	80·5	81·3	81·7	80·6	80·3	81·7	83·2	83·6
7	81·6	80·7	81·0	79·3	79·6	80·4	80·5	81·4	81·2	82·2	83·4	84·7	84·9	84·6	80·2
8	81·7	80·5	81·0	81·0	81·3	81·3	81·5	82·3	83·2	83·5	84·5	85·0	80·7	80·9	80·6
9	77·7	77·9	77·7	77·0	76·3	76·6	77·3	77·2	77·3	77·8	78·7	80·5	78·6	80·8	81·7
10	81·2	81·0	80·0	79·6	80·5	78·6	77·6	76·6	76·6	76·7	77·9	78·2	77·8	79·6	79·2
11	77·7	78·2	78·3	78·2	78·2	78·2	78·7	78·9	79·5	79·3	79·8	80·8	81·5	81·0	78·8
12	77·9	78·1	78·2	78·5	78·6	78·6	77·3	77·7	76·3	77·4	78·4	78·9	77·9	78·6	78·8
13	78·7	78·2	78·3	78·6	78·0	77·2	76·8	77·0	76·7	76·3	77·4	78·5	78·4	79·0	77·5
14	78·0	77·0	78·5	78·9	79·0	78·1	77·7	78·5	80·0	80·4	80·3	79·9	81·1	81·3	81·9
15	80·2	80·1	79·6	78·7	79·7	80·2	79·9	80·5	80·7	82·5	83·3	84·2	83·5	83·8	82·5
16	80·4	80·5	80·5	79·8	80·2	80·4	80·6	81·4	81·7	80·4	80·0	80·2	82·0	83·4	83·0
17	80·5	80·6	80·6	80·5	80·2	80·6	80·8	81·5	82·0	83·5	84·5	84·5	83·6	84·5	84·6
18	80·8	79·4	79·9	80·4	80·2	80·2	80·5	81·4	81·8	83·1	84·0	84·6	85·5	85·0	84·7
19	80·6	80·3	80·6	80·1	80·4	80·5	78·2	78·7	80·8	81·0	82·7	83·1	82·8	82·4	82 8
20	81·2	80·6	80·6	80·4	79·8	79·9	79·0	80·6	81·9	82·6	82·5	81·3	82·0	82·4	82·4
21	81·3	81·1	80·8	80·2	80·8	81·0	81·4	81·9	82·4	82·6	82·7	82·6	83·2	82·6	82·3
22	77·6	77·2	77·5	76·6	77·2	76·1	77·6	77·0	78·2	78·0	78·1	78·2	78·2	77·4	76·6
23	78·6	78·7	78·6	79·0	77·6	78·0	78·6	78·9	79·5	79·7	79·4	80·2	80·2	80·9	80·0
24	80·0	78·7	78·2	77·9	78·8	79·0	79·0	79·0	78·5	78·4	78·7	79·7	79·8	80·3	80·5
25	80·0	79·5	79·0	79·2	79·6	79·9	79·5	80·2	80·5	80·7	80·0	81·0	81·5	80·5	81·4
26	79·3	78·3	78·4	78·6	78·6	79·2	78·2	77·8	78·8	80·5	81·0	80·5	81·2	82·0	82·3
27	78·8	79·4	79·3	79·1	78·4	79·4	78·9	79·0	79·1	81·3	80·2	80·7	79·3	80·3	81·4
28	78·2	77·8	78·7	78·3	78·5	77·9	78·5	77·3	77·8	78·6	77·4	77·9	80·6	81·3	82·9
29	78·9	79·4	79 1	79·0	79·3	79·4	79·0	78·6	79·2	80·2	79·2	81·2	81·6	82·0	80·0
30	79·0	79·0	79·0	78·3	78·2	78·4	79·1	78·2	80·0	81·3	81·4	82·0	81·5	80·5	82·4
31	79·0	79·4	79·5	79·9	79·5	79·5	79·4	80·4	80·5	80·7	81·3	82·9	83·3	82·8	81·7
Mean . .	79·9	79·7	79·7	79·5	79·6	79·5	79·5	79·8	80·3	80·8	81·1	81·5	81·6	81·8	81·6
Variation. .	—0·5	—0·7	—0·7	—0·9	—0·8	—0·9	—0·9	—0·6	—0·1	+0·4	+0·7	+1·1	+1·2	+1·4	+1·2
Mean in °C .	26·6	26·5	26·5	26·4	26·4	26·4	26·4	26·6	26·8	27·1	27·3	27·5	27·6	27·7	27·6
Variation in °C .	—0·3	—0·4	—0·4	—0·5	—0·5	—0·5	—0·5	—0·3	—0·1	+0·2	+0·4	+0·6	+0·7	+0·8	+0·7

AUGUST.

1	78·6	79·4	79·4	80·0	79·6	79·6	79·5	80·2	80·7	81·3	81·6	82·5	82·7	82·3	82·2
2	80·0	80·3	80·3	80·3	79·8	79·4	79·7	80·2	80·6	80·9	79·3	79·5	80·0	81·5	81·8
3	80·5	80·5	80·2	80·0	80·0	80·4	80·5	80·5	81·2	81·5	81·5	82·6	82·6	82·3	81·6
4	80·2	80·1	79·6	79·7	79·8	80·0	80·0	80·2	81·0	81·6	82·0	80·9	81·4	80·7	81·2
5	79·8	79·7	79·8	79·7	79·6	79·6	79·4	79·1	80·9	81·4	82·6	82·3	83·6	83·9	83·6
6	78·8	78·7	78·6	78·5	78·7	78·2	79·2	79·8	79·0	79·7	80·3	80·6	80·2	80·0	80·6
7	79·6	78·5	78·2	77·6	77·3	77·6	78·6	78·3	80·1	80·8	81·5	81·3	82·0	82·5	82·5
8	79·7	79·8	80·0	80·0	79·6	79·5	78·9	79·4	80·7	81·6	81·0	81·5	81·3	83·0	82·8
9	80·5	80·4	80·2	80·1	80·0	80·0	80·0	79·5	81·0	82·4	81·7	81·6	82·8	83·0	82·7
10	80·4	80·3	79·6	79·5	80·2	79·0	79·0	80·3	81·3	81·7	82·2	82·6	83·1	83·4	82·4
11	79·7	80·0	80·2	80·0	80·1	80·2	80·0	80·1	80·0	80·0	81·2	79·7	79·5	79·0	80·6
12	80·0	79·8	78·7	79·4	79·4	79·4	79·4	80·1	80·5	81·6	82·5	82·1	82·7	83·1	80·6
13	78·8	79·0	79·0	78·9	78·8	78·9	79·0	79·6	81·3	82·1	81·8	83·0	83·4	82·3	81·0
14	78·7	79 0	79·4	79·4	79·3	79·3	79·8	80·2	80·8	81·8	83·0	81·6	81·6	82·5	81·2
15	80·0	80·0	79·9	79·7	79·7	79·6	79·8	80·3	81·5	82·4	83·6	84·1	84·2	84·2	84·1
16	80·3	80·3	80·3	79·7	78·8	78·4	79·2	79·3	81·0	82·5	82·1	83·6	83·2	84·1	83·5
17	80·1	80·2	80·0	80·2	80·3	80·2	80·4	80·5	81·5	82·4	84·2	84·5	84·6	84·0	84·0
18	79·2	78·6	78·8	78·7	78·5	78·5	78·5	77·9	78·5	79·5	80·1	80·9	81·6	83·1	83·1
19	79·6	79·4	79·3	78·7	78·5	79·0	78·8	78·0	78·5	78·4	79·8	81·0	82·6	83·4	83·2
20	79·2	79·3	79·5	79·4	79·4	79·0	79·1	79·2	81·2	81·7	80·0	81·0	82·3	82·6	83·4
21	79·9	79·5	79·4	79·2	78·9	78·7	78·8	79·2	79·8	80·9	81·5	81·4	82·0	83·5	84·5
22	80·3	80·2	80·0	80·0	80·0	80·0	80·3	80·7	81·3	82·1	83·8	84·3	84·4	84·3	84·6
23	80·8	80·3	80·5	80·5	80·4	80·3	80·3	81·2	82·3	83·3	84·0	84·3	85·3	85·3	83·6
24	80·6	80·7	80·6	80·0	79·6	79·6	79·8	80·4	78·1	77·2	79·5	81·0	82·2	83·4	82·0
25	80·4	80·3	80·4	80·4	80·4	80·4	80·4	81·0	82·4	83·4	83·6	84·5	85·0	85·4	84·6
26	80·1	80·2	80·3	80·3	80·2	80·2	80·3	81·1	82·2	83·0	83·1	83·4	84·2	84·4	84·5
27	78·6	77·6	78·7	79·4	79·5	79·5	80·0	80·7	81·8	82·9	83·5	83·4	82·3	83·1	81·8
28	80·1	80·0	80·0	80·0	79·9	80·0	79·6	79·6	80·6	81·3	81·1	81·6	82·6	82·3	83·6
29	80·5	80·4	80·1	79·7	79·7	80·0	80·3	78·6	77·0	77·9	80·5	82·1	82·5	83·0	83·8
30	79·8	79·7	79·5	79·5	79·5	79·4	79·7	80·2	81·8	82·6	83·0	83·0	84·2	84·6	83·4
31	79·7	78·5	79·0	79·0	77·8	78·3	78·2	77·6	79·5	81·5	82·6	83·5	82·0	80·6	81·5
Mean . .	79·8	79·7	79·7	79·6	79·5	79·4	79·6	79·8	80·6	81·3	81·9	82·2	82·6	82·9	82·7
Variation. .	—1·0	—1·1	—1·1	—1·2	—1·3	—1·4	—1·2	—1·0	—0·2	+0·5	+1·1	+1·4	+1·8	+2·1	+1·9
Mean in °C .	26·6	26·5	26·5	26·4	26·4	26·3	26·4	26·6	27·0	27·4	27·7	27·9	28·1	28·3	28·2
Variation in °C.	—0·5	—0·6	—0·6	—0·7	—0·7	—0·8	—0·7	—0·5	—0·1	+0·3	+0·6	+0·8	+1·0	+1·2	+1·1

(Averages for sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Hours (B. M. T.).									Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	°F	°C	Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
85·0	84·5	84·0	83·5	81·9	82·3	82·5	81·7	82·3	82·9	28·3	13 30	85·5	9 21	79·5	1
84·0	84·5	84·3	83·4	83·0	82·7	82·5	82·5	82·3	82·3	27·9	16 53	84·6	5 27	79·5	2
83·1	83·0	83·5	83·0	82·7	82·7	82·7	82·6	82·0	82·6	28·1	12 48	85·7	4 50	80·0	3
83·7	82·1	82·4	82·8	82·9	82·9	81·4	81·8	81·7	82·6	28·1	14 2	85·3	21 30	80·0	4
82·1	81·1	82·2	81·8	82·2	82·4	81·4	81·5	81·4	81·6	27·6	10 12	84·0	11 50	79·6	5
83·6	83·7	83·6	83·1	82·7	82·6	82·1	81·4	82·0	81·7	27·6	16 55	84·4	5 7	79·4	6
80·2	79·1	79·5	80·1	80·7	81·5	81·6	81·7	81·7	81·3	27·4	12 51	85·5	3 40	78·3	7
79·8	78·3	78·1	78·5	78·1	79·1	79·4	79·3	77·5	80·7	27·1	11 20	85·6	23 4	77·1	8
81·7	82·0	81·6	80·4	80·6	81·2	81·3	81·3	81·4	79·4	26·3	15 0	82·2	4 55	76·0	9
80·4	79·6	79·8	80·3	79·4	79·1	79·0	78·5	78·4	79·0	26·1	13 55	80·9	7 23	76·5	10
77·7	76·8	75·7	77·5	77·5	78·3	78·2	77·7	77·5	78·5	25·8	13 3	82·0	17 20	75·2	11
77·0	77·2	77·7	77·3	77·9	77·6	78·6	78·2	77·9	77·9	25·5	11 21	79·7	8 33	75·2	12
78·5	77·5	76·8	78·0	77·6	78·2	79·8	79·1	77·1	77·9	25·5	21 26	79·9	9 28	75·4	13
81·6	80·8	79·6	79·7	79·2	79·5	79·7	79·1	79·8	79·6	26·4	13 51	82·4	1 20	76·6	14
80·5	81·5	81·5	80·9	80·4	79·8	80·5	80·1	80·4	81·0	27·2	12 2	84·7	3 0	78·6	15
84·5	83·7	83·1	82·2	81·0	80·8	79·5	79·0	80·2	81·2	27·3	15 40	84·6	10 30	78·6	16
84·8	83·5	82·7	81·8	81·6	81·1	80·8	81·1	81·1	82·1	27·8	15 31	85·5	4 18	79·5	17
84·5	83·8	83·0	82·4	82·1	81·9	81·5	81·5	81·4	82·2	27·9	12 48	85·7	1 45	78·5	18
82·4	81·3	81·3	81·5	81·5	80·6	79·8	80·8	80·8	81·0	27·2	12 24	84·5	6 16	77·5	19
81·0	79·9	79·2	79·6	80·1	81·1	81·1	81·1	81·1	80·9	27·2	9 10	83·1	6 25	78·1	20
82·1	81·2	80·0	80·3	78·4	78·6	79·5	78·6	77·6	81·0	27·2	12 20	83·3	22 49	77·3	21
77·0	76·7	77·1	78·0	77·7	78·3	77·7	79·1	79·4	77·6	25·3	23 20	79·4	5 23	75·8	22
80·1	80·0	80·5	78·7	80·3	79·5	80·5	78·5	78·5	79·4	26·3	13 30	81·5	4 30	76·3	23
80·6	79·6	78·9	78·9	78·5	79·2	78·5	78·2	79·3	79·1	26·2	16 23	81·0	3 11	77·2	24
79·9	79·5	80·1	80·3	80·2	78·6	79·5	79·5	79·5	80·0	26·7	12 35	81·7	20 10	77·5	25
81·6	81·4	80·3	80·2	80·3	80·3	79·6	79·2	79·0	79·9	26·6	14 25	82·7	7 30	77·3	26
79·2	81·0	81·0	80·5	79·5	78·8	79·5	79·5	79·2	79·7	26·5	10 5	82·5	4 9	78·0	27
82·6	82·6	81·8	81·1	80·0	78·9	79·0	79·1	79·2	79·4	26·3	14 15	83·0	10 5	77·0	28
79·5	81·1	80·4	79·6	79·2	79·0	79·5	79·5	79·0	79·7	26·5	13 50	82·8	10 15	77·7	29
82·3	80·3	80·0	80·4	80·5	80·4	80·3	80·1	79·6	80·1	26·7	12 31	83·1	4 35	78·0	30
82·3	81·5	81·2	80·6	80·2	79·3	78·3	78·7	79·2	80·5	26·9	12 18	84·2	21 44	77·7	31
81·4	80·9	80·7	80·5	80·3	80·2	80·2	80·0	79·9	80·4	26·9					Mean.
+1·0	+0·5	+0·3	+0·1	—0·1	—0·2	—0·2	—0·4	—0·5							Variation.
27·4	27·2	27·1	26·9	26·8	26·8	26·8	26·7	26·6							Mean in °C.
+0·5	+0·3	+0·2	0·0	—0·1	—0·1	—0·1	—0·2	—0·3							Variation in °C

AUGUST.

82·1	82·1	81·6	81·3	81·0	80·9	80·8	80·8	80·2	80·9	27·2	12 48	83·5	0 10	78·3	1
81·6	81·5	81·1	80·6	80·5	80·5	80·6	80·5	80·5	80·5	26·9	14 2	82·5	10 20	78·5	2
81·5	81·3	80·2	80·3	80·3	80·4	80·2	80·0	80·0	80·8	27·1	11 37	82·7	4 40	79·5	3
81·3	81·5	81·3	81·0	80·7	80·0	80·5	79·1	79·7	80·6	27·0	10 50	82·6	22 22	78·6	4
83·5	82·6	82·1	81·1	81·0	80·7	80·5	80·4	80·0	81·1	27·3	13 10	84·6	7 5	78·5	5
79·8	80·5	80·5	80·2	80·2	80·0	80·0	79·8	79·9	79·7	26·5	12 36	81·3	5 10	77·5	6
82·5	81·7	81·0	78·9	78·3	78·7	79·2	79·8	79·9	79·9	26·6	14 2	83·0	4 30	76·8	7
82·7	81·6	81·3	80·9	80·6	80·5	80·5	80·5	80·5	80·7	27·1	15 10	83·5	7 10	78·5	8
81·0	81·4	81·5	80·7	80·5	80·5	80·5	80·4	80·3	80·9	27·2	13 57	83·6	7 38	79·3	9
82·0	81·6	81·4	81·0	80·7	80·4	79·9	79·4	80·0	80·9	27·2	12 52	83·5	2 50	78·7	10
80·5	80·4	79·4	79·5	79·6	79·7	79·5	79·8	79·9	79·9	26·6	10 36	82·4	13 2	77·5	11
79·5	80·2	80·4	78·1	73·4	78·6	78·5	78·7	78·7	80·0	26·7	13 33	84·5	18 34	77·4	12
80·8	81·0	80·7	80·5	80·5	80·5	78·0	77·0	77·3	80·1	26·7	12 52	83·7	21 48	76·6	13
81·0	81·3	81·1	80·2	80·4	80·4	80·3	80·2	80·0	80·5	26·9	10 15	83·3	0 5	77·8	14
83·3	83·2	81·7	81·0	81·1	80·4	80·5	80·5	80·5	81·5	27·5	12 15	84·5	5 25	79·5	15
83·1	83·0	82·2	81·3	81·2	80·6	80·6	80·5	80·4	81·2	27·3	13 28	84·5	4 3	78·3	16
84·3	83·1	81·8	79·5	78·5	79·2	79·7	79·8	79·6	81·4	27·4	12 52	85·4	19 10	78·4	17
83·4	83·9	83·0	81·5	81·0	80·6	80·6	80·4	80·3	80·4	26·9	16 12	84·3	7 49	77·6	18
82·0	82·7	81·7	80·5	80·2	79·7	79·4	79·1	79·0	80·1	26·7	13 18	83·6	7 18	77·4	19
83·5	82·6	82·0	81·4	81·3	80·7	80·6	80·3	80·3	80·8	27·1	15 17	83·6	5 30	78·7	20
84·3	83·5	82·4	81·4	81·2	80·8	80·6	80·5	80·5	80·9	27·2	14 10	84·6	6 2	78·6	21
84·4	83·4	82·5	81·8	81·5	80·8	80·7	81·0	81·0	81·8	27·7	14 48	84·8	1 50	79·8	22
84·4	83·6	82·6	81·7	81·5	81·4	81·2	80·9	80·5	82·1	27·8	13 40	85·6	1 7	79·8	23
81·6	82·4	82·0	81·6	81·2	80·9	80·6	80·6	80·4	80·7	27·1	13 35	83·7	9 40	76·9	24
84·4	83·8	82·7	80·5	80·5	80·5	80·6	80·6	80·5	81·9	27·7	14 10	85·7	5 48	80·1	25
84·0	83·2	82·5	81·6	81·0	80·6	80·6	80·6	79·8	81·7	27·6	12 30	85·0	23 55	79·1	26
82·3	81·9	81·8	81·0	80·5	79·7	80·0	80·1	80·4	80·9	27·2	10 50	84·0	0 55	77·2	27
84·2	83·2	82·1	81·3	80·7	80·5	80·5	80·5	80·5	81·1	27·3	15 20	84·7	7 11	79·0	28
84·2	82·7	82·2	81·0	80·5	80·5	80·8	80·0	79·8	80·7	27·1	15 30	84·4	8 23	76·6	29
84·2	83·6	82·4	81·6	81·2	80·5	80·5	80·4	80·4	81·4	27·4	13 30	85·0	1 50	79·3	30
82·6	82·4	81·8	81·3	80·6	80·6	80·5	80·4	80·4	80·4	26·9	11 43	83·7	7 10	77·3	31
82·6	82·3	81·6	80·8	80·5	80·3	80·2	80·1	80·0	80·8	27·1					Mean.
+1·8	+1·5	+0·8	0·0	—0·3	—0·5	—0·6	—0·7	—0·8							Variation.
28·1	27·9	27·6	27·1	26·9	26·8	26·8	26·7	26·7							Mean in °C.
+1·0	+0·8	+0·5	0·0	—0·2	—0·3	—0·3	—0·4	—0·4							Variation in °C

AIR TEMPERATURE, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

(IN DEGREES FAHRENHEIT.)

Date.	Hours (B. M. T.).														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	80·4	80·5	80·5	80·3	79·2	77·6	78·0	79·1	81·0	82·4	82·9	83·5	84·5	83·0	79·4
2	78·4	78·4	79·0	79·4	79·5	79·5	79·7	80·7	82·4	82·0	81·7	83·4	84·3	84·6	84·7
3	80·4	80·4	80·0	80·0	79·8	79·7	79·7	80·1	80·8	81·8	83·2	83·9	82·7	84·0	84·4
4	80·1	80·0	80·0	80·0	79·6	79·6	79·5	80·5	81·6	82·1	83·3	84·0	84·5	85·0	85·2
5	80·0	80·0	79·9	79·8	79·6	79·6	80·0	80·7	81·9	82·9	84·0	84·7	85·2	85·6	86·0
6	80·5	80·4	80·1	80·0	79·6	79·7	79·7	80·5	81·2	80·9	82·8	83·7	84·9	85·4	85·0
7	80·0	79·9	79·8	79·8	80·0	79·9	79·8	80·5	81·7	82·4	83·0	82·9	82·5	80·6	78·5
8	80·5	80·4	79·5	80·0	79·9	80·0	80·4	80·4	79·7	80·3	80·1	79·5	78·8	80·0	79·5
9	76·8	77·0	76·1	76·7	76·2	76·5	76·8	77·6	80·2	81·5	81·5	82·9	82·7	82·6	82·7
10	78·1	77·5	77·6	78·4	78·6	78·6	76·7	78·3	80·4	81·5	82·5	80·6	81·0	81·5	80·4
11	79·4	79·4	77·7	79·2	79·0	78·8	78·5	78·2	77·3	77·6	77·7	79·1	79·5	80·4	80·7
12	80·2	80·2	80·3	80·2	80·0	79·8	80·0	80·6	80·7	82·4	83·4	83·5	83·6	83·7	83·4
13	80·0	79·9	79·9	79·9	80·0	80·0	80·2	80·8	80·6	82·4	82·4	82·1	83·5	84·2	84·5
14	80·2	80·2	80·0	80·0	78·5	77·5	78·7	79·7	80·2	82·0	83·4	82·9	82·7	83·2	84·0
15	79·9	79·6	79·5	79·5	79·5	79·5	79·6	80·5	81·8	81·6	83·2	83·7	84·5	84·8	82·8
16	79·5	79·5	79·7	79·1	79·4	79·3	77·9	78·2	80·3	79·6	78·1	81·0	82·0	83·0	83·3
17	76·6	76·7	77·0	76·9	76·9	77·0	76·3	76·4	77·1	77·0	79·0	80·6	80·7	80·8	81·0
18	78·8	78·5	78·4	78·0	78·1	78·4	78·3	77·4	78·4	78·6	79·8	81·4	82·8	83·5	84·0
19	79·6	79·6	79·5	79·5	79·1	79·0	79·4	80·5	81·0	81·3	82·3	83·0	83·0	83·3	84·1
20	80·4	79·9	79·8	80·0	80·0	80·0	79·9	80·1	80·9	81·8	83·2	84·0	84·6	84·2	83·1
21	78·5	78·5	78·5	78·4	78·4	78·5	77·1	76·3	76·2	76·6	76·7	77·6	79·2	80·5	81·3
22	79·1	79·0	78·6	78·5	78·6	78·3	77·2	76·7	76·4	76·7	77·7	78·6	80·1	80·7	81·1
23	78·9	78·6	78·6	78·5	77·6	75·6	75·2	75·4	75·4	75·8	76·9	78·0	80·0	81·2	81·5
24	78·2	78·0	78·0	77·9	77·6	77·5	77·7	79·1	80·5	80·9	81·5	82·4	83·3	84·1	83·9
25	77·2	77·1	77·4	77·6	77·8	77·5	77·8	78·9	80·0	80·9	82·1	83·2	84·5	85·2	85·1
26	78·6	78·6	78·5	78·2	78·0	78·0	78·2	79·7	81·0	81·9	83·0	83·7	84·5	85·2	84·6
27	78·0	77·9	77·8	77·9	77·8	77·8	78·2	79·9	81·4	82·1	83·0	83·9	84·3	85·0	85·3
28	78·4	78·3	78·4	78·5	78·5	78·4	79·0	80·1	81·1	82·6	83·4	84·3	84·5	84·6	85·4
29	80·2	80·3	80·4	80·0	80·0	80·0	80·2	80·8	82·2	83·4	84·2	85·0	85·7	86·8	86·4
30	77·8	78·4	78·0	77·6	77·8	78·0	78·4	79·1	80·4	81·7	83·9	84·6	86·5	87·2	87·1
Mean	79·2	79·1	78·9	79·0	78·8	78·7	78·6	79·2	80·1	80·8	81·7	82·4	83·0	**83·5**	83·3
Variation	—1·3	—1·4	—1·6	—1·5	—1·7	—1·8	—1·9	—1·3	—0·4	+0·3	+1·2	+1·9	+2·5	+3·0	+2·8
Mean in °C.	26·2	26·2	26·1	26·1	26·0	25·9	25·9	26·2	26·7	27·1	27·6	28·0	28·3	**28·6**	28·5
Variation in °C.	—0·7	—0·7	—0·8	—0·8	—0·9	—1·0	—1·0	—0·7	—0·2	+0·2	+0·7	+1·1	+1·4	+1·7	+1·6

OCTOBER.

1	79·6	79·6	79·7	79·5	79·5	79·3	78·3	79·1	80·9	82·3	83·8	84·5	85·4	86·6	87·7
2	80·7	80·6	80·6	80·5	80·1	79·8	80·6	81·8	83·4	84·4	86·0	87·7	88·4	**88·5**	88·4
3	80·5	80·4	80·1	79·6	79·4	79·3	79·9	81·4	83·0	84·4	85·6	86·7	87·2	87·5	87·6
4	78·2	78·1	77·8	78·3	78·4	78·6	78·6	79·3	80·4	81·5	83·8	84·6	85·6	85·4	85·2
5	78·0	77·6	78·0	77·6	77·3	77·2	77·5	79·5	81·6	82·6	83·7	84·4	84·7	85·5	85·4
6	81·6	81·3	81·2	80·9	80·6	80·5	80·5	81·6	82·8	84·3	85·3	85·5	85·6	85·8	86·0
7	82·1	81·9	81·3	80·6	80·7	81·0	81·2	82·3	82·6	84·0	85·3	85·5	86·4	86·5	87·3
8	81·8	81·4	80·8	80·5	80·2	80·9	80·8	81·6	83·2	84·8	86·2	87·3	88·2	88·5	88·4
9	83·5	83·5	83·0	82·6	82·4	81·5	82·6	83·5	84·8	85·7	86·5	86·7	87·3	87·4	87·4
10	80·8	80·6	80·6	80·5	80·2	80·1	80·1	80·9	82·3	83·9	84·9	85·3	85·4	85·7	86·4
11	80·5	80·4	80·5	80·2	79·6	79·4	80·0	81·6	83·0	84·0	85·3	85·6	86·2	86·5	87·0
12	81·5	81·0	80·7	80·7	80·6	80·7	81·2	81·4	82·5	83·4	84·0	85·3	86·8	88·0	88·3
13	82·6	82·6	81·8	80·7	80·3	78·8	78·8	80·8	82·5	84·3	86·2	86·7	87·6	87·6	87·6
14	80·7	80·5	80·0	79·4	78·7	78·6	78·8	80·3	81.4	82·5	83·5	84·2	85·2	85·5	86·0
15	77·5	77·3	76·7	77·5	77·3	76·7	77·2	78·0	79·5	81·2	82·9	83·9	84·3	84·6	85·1
16	77·4	78·2	77·6	77·3	76·9	76·4	76·5	76·6	78·7	80·0	81·9	83·1	83·6	84·3	84·5
17	78·4	77·8	77·3	77·2	76·6	75·8	76·2	77·3	78·8	80·2	82·0	83·1	83·5	84·0	84·3
18	77·9	77·6	77·2	77·3	77·1	76·6	76·6	78·8	80·6	82·6	84·4	85·4	85·5	86·2	85·6
19	79·6	78·9	78·2	78·0	77·6	77·3	77·2	78·1	80·6	82·8	84·4	85·7	86·8	87·6	88·2
20	80·5	80·2	79·3	78·6	78·7	79·0	78·7	79·2	80·4	81·6	83·8	85·0	86·5	87·6	87·8
21	78·7	78·7	78·5	77·8	77·0	75·8	75·7	77·7	79·5	80·9	82·4	83·5	84·7	85·2	85·6
22	78·1	78·2	78·0	77·7	76·6	75·6	76·5	78·2	79·5	81·4	83·5	84·9	85·7	86·3	85·8
23	77·5	77·4	76·0	76·0	75·7	75·6	75·8	77·5	79·7	81·5	83·9	86·0	88·3	87·8	86·6
24	76·6	75·8	**74·9**	76·4	76·2	75·3	75·5	77·0	79·4	81·7	84·5	85·6	85·5	85·6	86·3
25	79·6	79·5	79·3	78·6	78·5	78·4	78·3	79·9	81·8	83·4	85·5	86·7	87·9	87·5	87·5
26	80·3	79·6	79·5	79·5	78·6	78·0	78·2	80·3	82·0	83·3	84·9	85·6	86·3	86·6	86·7
27	79·3	79·2	79·0	78·5	78·5	78·3	78·0	79·5	81·3	82·4	83·9	85·2	85·7	85·8	85·9
28	81·3	81·0	80·4	80·3	80·0	79·6	79·4	80·5	82·3	84·0	85·8	85·5	86·2	86·5	86·8
29	79·8	79·3	79·2	78·8	78·7	78·7	78·8	80·4	82·6	84·0	84·8	85·6	85·8	85·6	85·5
30	79·9	78·9	78·5	78·7	78·7	78·5	78·6	80·4	81·7	83·2	84·7	86·0	85·7	85·8	86·2
31	79·7	78·9	77·3	77·5	76·8	76·5	75·5	77·2	80·8	82·2	85·0	86·0	85·9	85·9	86·0
Mean	79·8	79·5	79·1	78·9	78·6	**78·3**	78·4	79·7	81·4	82·9	84·5	85·4	86·1	86·4	**86·6**
Variation	—2·2	—2·5	—2·9	—3·1	—3·4	**—3·7**	—3·6	—2·3	—0·6	+0·9	+2·5	+3·4	+4·1	+4·4	**+4·6**
Mean in °C.	26·6	26·4	26·2	26·1	25·9	**25·7**	25·8	26·5	27·4	28·3	29·2	29·7	30·1	30·2	**30·3**
Variation in °C.	—1·1	—1·4	—1·6	—1·7	—1·9	**—2·1**	—2·0	—1·3	—0·4	+0·5	+1·4	+1·9	+2·3	+2·4	**+2·5**

(Averages for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT.)

Hours (B.M.T.)									Mean		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	°F	°C	Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
79·5	80·0	80·5	80·2	80·0	80·1	80·1	80·0	78·7	80·5	26·9	12 50	84·6	5 25	77·3	1
84·6	83·5	82·5	81·7	81·5	81·1	81·0	80·5	20·4	81·4	27·4	14 21	85·2	0 25	78·1	2
83·9	82·4	81·5	81·1	80·8	80·4	79·6	79·6	80·0	81·3	27·4	14 20	84·6	5 12	79·3	3
84·8	84·0	83·1	82·0	81·5	81·2	80·9	80·5	80·5	**81·8**	**27·7**	13 56	85·6	6 2	79·4	4
82·0	81·9	81·1	81·2	81·3	81·3	80·8	80·7	80·6	81·7	27·6	14 50	86·2	0 44	79·5	5
85·4	84·2	83·0	82·1	81·6	81·4	80·8	80·3	80·0	81·8	27·7	13 20	85·8	6 0	79·5	6
78·8	79·4	79·6	80·5	79·3	77·6	78·6	79·5	80·0	80·2	26·8	11 7	83·5	19 58	76·3	7
79·4	78·0	77·3	77·5	76·0	76·5	77·5	78·0	77·6	79·0	26·1	10 56	80·7	19 27	75·5	8
80·8	79·8	78·6	77·8	78·0	78·6	77·5	78·1	78·5	79·0	26·1	12 2	83·5	2 30	75·3	9
81·6	79·7	79·4	77·8	79·0	79·0	79·6	79·0	78·1	79·4	26·3	10 53	83·0	6 20	76·5	10
80·6	80·5	80·5	80·4	80·4	80·4	80·4	80·3	80·1	79·4	26·3	14 55	81·1	2 30	77·3	11
82·8	82·5	82·0	81·3	80·2	80·4	80·5	80·2	80·0	81·3	27·4	12 19	84·0	5 58	79·6	12
84·3	83·2	81·8	80·6	80·7	80·6	80·6	80·5	80·5	81·4	27·4	14 21	84·8	1 50	79·5	13
81·0	82·8	82·6	81·3	81·0	80·6	80·5	80·4	80·3	81·1	27·3	15 30	84·6	5 30	77·0	14
82·5	82·8	81·8	80·9	80·6	80·5	80·4	80·0	79·7	81·2	27·3	13 40	85·1	5 4	79·3	15
83·5	81·8	80·0	79·0	78·6	77·1	76·6	76·4	76·5	79·6	26·4	15 4	83·7	6 25	76·2	16
81·0	80·4	80·0	79·5	79·5	79·6	79·5	79·0	79·0	78·6	25·9	13 58	81·6	7 0	76·0	17
83·7	82·6	81·4	80·8	80·7	80·7	80·6	80·2	80·0	80·2	26·8	14 20	84·3	7 5	77·0	18
83·0	82·1	81·5	81·0	81·0	81·0	81·0	80·6	80·5	81·1	27·3	14 40	84·4	6 5	78·9	19
81·6	81·4	81·1	80·3	79·6	79·5	79·2	79·0	78·6	80·9	27·2	12 34	85·0	23 58	78·5	20
81·5	80·7	79·7	79·7	79·7	79·6	79·4	79·5	79·0	78·8	26·0	15 8	81·8	7 57	75·8	21
81·2	81·0	80·5	80·0	80·0	80·0	79·9	79·5	79·0	79·1	26·2	15 12	81·5	8 50	76·2	22
81·2	80·5	80·0	79·7	79·6	79·0	78·4	78·0	78·2	**78·4**	**25·8**	13 58	82·3	6 7	**75·0**	23
82·5	81·7	80·2	78·5	78·3	78·0	78·3	77·7	77·5	79·7	26·5	13 33	84·5	23 6	77·4	24
84·4	83·2	82·2	80·3	79·5	79·1	79·0	78·6	78·4	80·3	26·8	13 56	85·8	0 40	77·0	25
83·2	82·7	80·9	79·6	79·2	78·7	78·7	78·1	77·8	80·4	26·9	14 14	85·8	4 20	77·6	26
85·2	83·9	82·9	81·9	81·6	81·7	81·0	80·4	79·2	81·2	27·3	15 2	85·7	2 10	77·5	27
85·4	85·4	84·4	83·3	82·6	82·4	82·2	81·2	80·7	81·8	27·7	14 30	85·5	2 10	78·0	28
84·8	84·5	82·2	79·0	78·4	77·9	77·8	78·4	78·3	81·5	27·5	13 54	87·1	21 15	77·8	29
87·4	87·0	83·0	82·3	79·3	80·0	80·0	80·1	80·2	81·5	27·5	13 40	**87·6**	4 55	77·4	30
82·8	82·1	81·2	80·4	80·0	79·8	79·7	79·5	79·3	80·5	26·9					Mean.
+2·3	+1·6	+0·7	—0·1	—0·5	—0·7	—0·8	—1·0	—1·2							Variation.
28·2	27·8	27·3	26·9	26·7	26·6	26·5	26·4	26·3							Mean in °C.
+1·3	+0·9	+0·4	0·0	—0·2	—0·3	—0·4	—0·5	—0·6							Variation in °C

OCTOBER.

88·1	87·7	85·9	84·4	83·9	82·6	82·0	81·7	81·5	82·7	28·2	15 27	88·3	6 50	78·0	1
86·7	86·0	85·5	79·4	79·5	80·5	81·2	80·5	80·6	83·0	28·3	13 30	88·6	18 25	78·2	2
87·8	87·3	84·0	78·2	78·2	78·4	78·3	78·5	78·3	82·1	27·8	15 25	88·1	18 5	77·9	3
83·9	83·2	81·8	81·6	80·8	80·3	79·9	77·6	77·6	80·9	27·2	12 10	85·9	2 20	77·5	4
84·7	84·2	83·2	82·3	81·7	80·8	80·5	81·0	81·5	81·3	27·4	14 6	86·0	6 10	77·0	5
86·2	85·8	84·6	83·4	82·5	82·1	81·6	81·8	82·0	83·1	28·4	15 25	86·5	5 0	80·4	6
87·0	86·1	84·8	83·8	83·5	83·0	82·4	82·5	82·1	83·5	28·6	14 50	87·5	4 2	80·5	7
88·4	87·6	86·2	85·3	84·8	84·0	83·6	83·4	83·4	84·2	29·0	13 30	**88·7**	4 10	80·0	8
87·3	86·7	85·4	84·4	84·2	83·6	83·2	82·6	81·4	**84·5**	**29·2**	14 45	87·6	23 58	81·0	9
86·4	85·7	84·7	83·6	82·7	82·4	82·2	81·4	80·6	82·8	28·2	15 48	86·6	5 58	80·0	10
86·9	86·2	84·8	83·9	83·4	83·0	83·2	82·5	81·8	83·1	28·4	15 0	87·4	5 25	79·3	11
88·3	87·6	86·0	85·3	84·7	84·0	82·8	82.7	82·6	83·8	28·8	15 35	88·5	4 20	80·4	12
87·3	85·8	84·0	83·2	82·6	81·8	81·3	80·7	80·6	83·2	28·4	13 0	87·8	6 10	78·4	13
86·2	84·9	82·8	80·9	79·9	79·2	78·5	77·4	77·4	81·4	27·4	15 35	86·3	23 56	77·0	14
85·0	84·1	82·5	81·0	80·5	80·3	79·8	78·5	77·5	80·4	26·9	14 40	85·3	2 55	76·5	15
84·0	83·5	82·0	80·8	80·0	79·4	79·1	78·3	78·2	**79·9**	**26·6**	14 48	84·6	6 2	76·0	16
84·1	83·0	81·5	80·6	80·5	80·5	79·8	79·4	78·6	80·0	26·7	14 35	84·6	6 5	75·5	17
85·5	84·6	83·3	82·5	82·6	82·0	81·2	80·7	79·9	81·3	27·4	13 40	86·5	6 10	76·4	18
88·0	86·2	84·0	82·6	82·5	82·0	81·4	80·7	80·8	82·1	27·8	14 42	88·5	6 20	76·6	19
87·5	86·2	83·3	81·7	81·1	80·4	79·3	78·2	78·3	81·8	27·7	14 10	88·4	23 10	77·4	20
85·5	84·2	82·6	81·5	80·7	79·2	78·4	77·5	77·6	80·4	26·9	14 30	86·1	6 10	75·4	21
85·5	84·0	82·6	81·3	80·3	78·5	77·4	76·5	76·9	80·4	26·9	13 12	86·5	5 30	75·3	22
85·8	84·4	82·6	81·2	80·6	80·3	79·0	78·2	77·6	80·6	27·0	12 59	88·7	3 10	75·4	23
86·3	85·0	83·1	82·2	81·9	81·5	81·0	80·3	79·8	80·7	27·1	14 58	86·8	2 29	**74·7**	24
87·5	86·1	84·5	83·3	82·6	81·7	81·2	80·8	81·0	82·5	28·1	12 30	88·4	6 30	78·2	25
85·9	84·8	83·1	82·0	81·2	80·8	80·5	80·1	79·4	82·0	27·8	14 30	86·8	6 2	77·7	26
85·3	84·5	83·3	82·3	82·1	81·8	81·6	81·5	81·3	81·8	27·7	13 30	86·5	6 30	78·0	27
86·0	84·5	83·0	82·6	82·6	81·8	81·7	80·8	80·7	82·6	28·1	14 15	87·5	6 29	79·0	28
84·6	83·6	82·5	82·0	82·0	81·7	80·9	80·0	80·1	81·9	27·7	12 55	86·4	5 45	78·3	29
85·8	84·4	82·9	81·7	81·5	81·4	80·7	80·5	80·5	81·9	27·7	11 58	86·5	6 20	78·2	30
85·6	84·1	82·2	81·7	81·7	81·6	80·9	79·8	79·2	81·2	27·3	12 2	86·5	6 35	75·0	31
86·2	85·2	83·6	82·3	81·8	81·3	80·8	80·2	80·0	82·0	27·8					Mean.
+4·2	+3·2	+1·6	+0·3	—0·2	—0·7	—1·2	—1·8	—2·0							Variation.
30·1	29·6	28·7	27·9	27·7	27·4	27·1	26·8	26·7							Mean in °C.
+2·3	+1·8	+0·9	+0·1	—0·1	—0·4	—0·7	—1·0	—1·1							Variation °C

AIR TEMPERATURE, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.

Date.	Hours. (B. M. T.)														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	79·2	78·9	78·6	78·6	78·4	78·3	78·8	80·7	82·5	84·0	85·4	87·3	89·3	89·5	89·0
2	81·5	81·3	80·5	80·0	79·7	79·4	78·8	80·7	83·4	84·7	86·6	88·0	90·2	90·5	88·9
3	81·5	81·5	81·2	80·5	79·8	80·4	79·9	81·1	83·1	84·5	85·4	86·2	87·7	89·0	89·3
4	81·1	81·1	80·6	80·5	80·3	79·6	79·5	80·4	82·6	84·6	85·2	86·0	87·1	89·7	88·4
5	81·0	80·9	80·4	80·0	79·4	79·0	78·8	81·2	83·1	85·5	87·1	88·6	89·5	90·1	91·0
6	79·6	79·3	78·6	78·6	79·0	79·4	80·0	81·4	83·5	86·1	88·2	88·9	87·6	87·0	86·6
7	77·0	77·2	76·3	75·6	75·9	75·6	75·6	77·3	79·4	81·3	83·5	85·5	87·6	88·7	87·9
8	76·5	77·0	77·3	76·7	76·3	76·3	76·0	77·1	79·3	80·9	82·5	83·9	86·0	85·8	86·1
9	77·5	77·1	76·7	75·5	75·5	75·5	75·4	76·7	78·2	79·9	81·8	84·0	86·4	87·7	87·1
10	78·6	78·3	77·9	77·5	77·0	76·8	76·9	77·8	80·0	81·5	82·6	84·2	85·7	86·5	83·6
11	78·3	77·8	78·0	77·0	76·9	76·3	76·5	78·0	79·0	80·7	83·0	85·5	87·0	87·6	87·6
12	79·8	79·0	78·4	77·5	76·9	76·8	76·6	77·9	79·3	80·9	82·8	85·0	86·5	86·5	86·5
13	79·4	78·8	78·3	77·6	77·3	76·2	76·5	78·0	79·1	80·7	82·7	84·5	86·3	86·8	87·0
14	79·1	78·6	78·6	78·0	78·0	77·5	76·7	77·9	80·0	81·8	83·8	86·2	87·8	88·5	88·3
15	80·0	79·5	79·1	78·6	77·2	76·7	76·7	79·3	80·7	82·3	84·2	86·1	88·0	89·4	88·0
16	78·7	79·4	78·5	77·8	78·2	78·0	78·4	78·8	81·3	82·8	84·5	86·4	88·8	90·3	91·4
17	78·6	78·9	79·0	78·8	78·5	78·4	78·2	79·5	81·0	83·0	84·9	87·3	89·6	91·0	91·5
18	77·8	77·5	77·4	77·2	78·0	77·7	77·9	79·2	81·4	83·1	84·4	86·3	87·0	87·5	86·7
19	78·5	77·7	76·8	76·7	76·0	75·4	75·2	76·9	78·5	80·4	83·1	85·0	87·2	88·0	88·5
20	78·6	78·2	78·0	77·7	76·8	75·3	75·1	77·1	79·5	81·1	83·2	84·9	86·8	87·0	86·3
21	77·8	76·6	76·5	77·2	77·0	76·5	76·8	78·4	80·0	82·0	83·8	85·1	85·7	87·0	87·2
22	78·9	78·5	77·9	78·1	77·5	76·9	75·9	78·1	80·4	83·5	85·3	85·8	86·6	86·9	87·0
23	78·2	77·1	75·9	77·7	76·5	76·4	76·1	76·9	78·9	80·6	82·1	83·3	83·6	84·2	84·7
24	76·9	76·7	76·4	76·0	75·2	73·7	73·1	75·5	78·0	79·4	81·8	84·3	86·2	85·2	84·6
25	76·5	75·7	75·5	75·2	74·8	74·3	73·9	76·3	77·9	80·4	82·8	85·0	87·4	88·3	86·0
26	75·7	75·0	74·5	75·0	75·1	74·7	74·8	76·4	78·8	80·5	82·6	84·8	87·6	87·5	85·2
27	75·5	74·9	74·5	74·0	72·9	73·8	74·3	75·5	77·9	79·9	81·7	83·0	84·2	84·3	84·5
28	74·8	74·6	74·9	75·0	74·5	74·5	74·5	75·4	76·8	78·7	80·8	83·2	84·0	84·0	83·5
29	76·2	75·7	73·8	73·0	72·9	73·3	72·9	73·7	75·3	77·1	78·9	80·5	82·9	84·7	86·4
30	74·2	74·4	75·0	74·5	74·0	73·8	73·8	75·5	77·5	79·2	81·0	82·9	83·8	83·5	83·3
Mean .	78·2	77·9	77·5	77·2	76·9	76·5	76·5	78·0	79·9	81·7	83·5	85·3	86·8	87·4	87·2
Variation .	—2·8	—3·1	—3·5	—3·8	—4·1	—4·5	—4·5	—3·0	—1·1	+0·7	+2·5	+4·3	+5·8	+6·4	+6·2
Mean in °C.	25·7	25·5	25·3	25·1	24·9	24·7	24·7	25·6	26·6	27·6	28·6	29·6	30·4	30·8	30·7
Variation in °C.	—1·5	—1·7	—1·9	—2·1	—2·3	—2·5	—2·5	—1·6	—0·6	+0·4	+1·4	+2·4	+3·2	+3·6	+3·5

DECEMBER.

1	72·7	72·4	73·1	72·8	72·8	72·8	72·7	73·9	75·6	77·6	79·8	81·8	83·1	83·7	83·2
2	71·5	71·4	71·8	71·5	71·5	71·0	70·4	71·5	73·6	75·4	77·4	79·0	80·7	81·8	81·7
3	70·3	69·1	68·5	69·0	68·5	66·9	66·9	69·4	70·8	72·4	74·9	77·1	78·5	79·1	79·6
4	71·2	69·7	68·5	68·5	68·4	67·9	67·5	69·1	70·7	72·6	74·3	76·4	78·0	79·5	80·6
5	71·6	70·6	70·4	70·4	69·4	68·7	68·7	69·9	71·6	73·1	75·3	77·8	80·2	81·4	81·2
6	72·1	70·8	69·6	68·6	68·2	68·5	68·4	69·0	70·9	73·1	75·6	78·6	80·3	80·5	80·6
7	70·2	69·4	69·6	70·0	69·5	68·1	67·8	69·5	71·4	73·6	76·1	78·3	80·0	80·5	81·0
8	71·2	70·3	69·5	69·2	68·2	67·9	68·6	69·7	72·1	74·3	76·3	78·7	79·8	80·6	81·1
9	69·1	69·4	68·0	69·5	70·1	69·0	68·7	70·0	72·2	74·5	77·5	80·0	80·9	80·7	80·7
10	71·0	70·7	70·7	70·1	70·6	71·5	71·0	72·0	74·4	76·2	79·7	82·8	82·8	83·5	82·6
11	74·3	73·7	72·7	73·2	73·1	73·5	73·3	74·8	76·8	78·2	81·4	83·0	83·3	83·4	82·8
12	75·4	74·9	74·1	73·5	73·5	73·5	73·6	74·2	75·6	77·7	80·0	81·7	81·9	81·6	81·4
13	72·6	71·9	71·4	71·6	71·0	70·5	70·4	71·0	73·2	76·8	78·4	80·0	80·7	80·8	80·7
14	74·3	73·4	73·6	73·5	72·7	72·4	72·7	73·9	76·6	78·3	80·4	81·7	82·7	82·7	82·5
15	76·5	76·6	75·9	75·5	75·5	75·4	75·5	75·9	77·8	78·8	80·5	82·2	83·7	83·6	83·5
16	77·2	76·5	76·2	75·9	75·8	75·4	75·5	76·4	78·4	79·8	81·6	83·4	85·4	84·5	84·4
17	77·6	77·6	77·2	77·1	76·1	75·9	76·5	76·8	77·8	79·3	82·5	84·2	85·8	85·5	84·9
18	75·5	74·8	75·1	74·5	74·0	72·7	72·5	73·4	75·2	76·5	78·4	79·7	81·3	82·4	81·5
19	72·3	71·7	72·4	72·4	71·5	70·7	70·5	70·6	71·6	73·2	75·4	77·3	78·7	79·4	79·6
20	72·7	72·4	71·8	71·4	71·1	70·6	70·3	70·6	71·7	72·7	74·2	75·2	76·2	76·8	77·5
21	71·0	70·1	69·1	68·5	67·9	67·5	67·5	68·9	70·8	71·9	72·6	73·4	75·8	76·6	76·6
22	66·7	66·1	65·6	66·1	65·6	65·5	65·2	65·2	65·7	67·6	70·6	72·8	74·3	75·3	75·6
23	67·2	66·5	66·4	67·6	68·3	68·1	67·4	67·9	70·3	72·1	74·6	76·7	78·2	77·7	78·4
24	71·7	71·4	70·5	69·8	69·4	68·8	68·9	70·3	72·2	73·9	76·7	78·7	80·0	79·8	79·7
25	71·8	71·7	72·0	71·4	71·6	72·6	73·0	74·5	76·3	78·9	81·5	83·2	85·1	86·2	85·3
26	74·5	74·5	74·0	73·0	72·6	73·1	73·4	74·5	76·2	78·0	80·6	82·7	84·6	83·8	82·1
27	73·5	73·7	73·3	72·6	72·5	72·0	71·8	72·3	74·3	77·3	79·5	80·5	80·8	80·7	80·1
28	70·9	70·5	70·5	71·7	70·9	70·3	68·6	69·9	72·4	74·8	76·6	77·6	78·5	79·1	79·4
29	70·0	69·3	68·4	68·1	67·9	67·4	66·9	69·5	71·7	73·5	75·2	76·5	77·4	77·7	77·8
30	70·4	70·7	70·8	70·4	70·0	69·6	69·5	70·1	72·0	73·9	75·8	76·9	77·4	77·7	78·3
31	72·7	72·5	72·0	71·6	71·1	70·7	70·6	71·1	72·6	74·3	75·8	77·1	77·2	78·0	78·0
Mean .	72·2	71·8	71·4	71·2	70·9	70·6	70·5	71·5	73·3	75·2	77·4	79·2	80·4	80·8	80·7
Variation .	—2·8	—3·2	—3·6	—3·8	—4·1	—4·4	—4·5	—3·5	—1·7	+0·2	+2·4	+4·2	+5·4	+5·8	+5·7
Mean in °C. .	22·3	22·1	21·9	21·8	21·6	21·4	21·4	21·9	22·9	24·0	25·2	26·2	26·9	27·1	27·1
Variation in °C.	—1·6	—1·8	—2·0	—2·1	—2·3	—2·5	—2·5	—2·0	—1·0	0·1	+1·3	+2·3	+3·0	+3·2	+3·2

(Averages for sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Hours. (B. M. T.)									Mean.		Maximum.			Minimum.			Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	°F	°C	Time.		Mag.	Time.		Mag.	
											H.	M.		H.	M.		
88·3	86·0	84·0	83·2	83·0	82·6	82·0	82·1	81·8	83·0	28·3	13	10	89·7	4	52	78·0	1
87·3	86·0	84·4	83·6	83·4	83·4	83·1	82·4	81·6	**83·7**	**28·7**	13	15	90·7	6	35	78·6	2
88·0	86·9	85·0	83·9	83·5	83·4	82·7	82·3	81·1	83·7	28·7	14	35	89·5	6	40	79·6	3
85·8	84·8	83·9	82·7	82·5	82·1	81·6	80·8	81·4	83·0	28·3	13	37	90·3	6	10	79·3	4
91·0	87·3	84·0	82·5	82·1	81·5	81·1	80·0	78·6	83·5	28·6	14	50	91·3	23	35	78·4	5
86·2	84·9	82·9	81·4	80·9	80·3	79·2	78·0	77·3	82·3	27·9	11	15	89·4	23	58	77·0	6
86·5	84·9	83·1	81·7	81·1	80·7	79·7	77·7	76·9	80·7	27·1	13	55	88·9	6	10	75·4	7
86·0	84·5	82·7	81·2	80·5	79·2	78·5	78·0	77·6	80·2	26·8	12	50	86·5	6	30	75·7	8
86·3	84·5	82·7	81·9	82·0	80·9	79·7	78·8	78·5	80·4	26·9	13	28	88·2	6	10	75·2	9
86·8	86·0	83·9	82·2	81·0	79·7	79·5	79·2	79·2	81·1	27·3	13	55	86·9	6	22	76·5	10
86·8	84·9	83·4	82·4	82·0	81·6	80·5	79·6	79·5	81·2	27·3	14	26	88·4	6	10	75·8	11
86·2	84·9	83·3	81·9	81·4	80·1	80·0	79·8	79·5	81·1	27·3	12	45	86·9	4	28	76·3	12
86·9	85·1	83·4	82·3	81·5	80·2	80·0	79·5	79·5	81·1	27·3	15	15	87·4	5	50	75·6	13
87·2	85·4	83·8	83·0	82·5	81·2	80·6	80·5	80·3	81·9	27·7	13	55	88·9	6	55	76·4	14
87·2	85·5	84·2	83·5	82·9	82·3	81·4	79·8	79·2	82·2	27·9	13	52	89·7	6	20	76·5	15
91·6	87·4	85·0	83·5	83·1	82·5	81·7	80·3	80·4	82·9	28·3	15	45	91·7	3	20	77·3	16
89·3	85·4	83·9	83·1	82·7	81·7	80·8	80·0	79·1	82·7	28·2	15	10	**91·8**	0	58	77·9	17
86·3	84·5	82·6	81·3	80·7	80·6	80·2	78·8	78·7	81·4	27·4	13	22	87·9	2	0	77·0	18
87·1	84·6	82·5	81·5	80·9	80·2	79·0	78·9	79·1	80·7	27·1	13	45	88·6	5	53	74·9	19
85·8	84 4	82·7	81·6	81·4	80·7	79·9	78·3	77·7	80·8	27·1	12	51	87·5	5	40	74·7	20
86·2	84·5	82·9	81·6	81·4	80·6	79·4	78·4	78·7	80·9	27·2	14	10	87·7	2	5	76·1	21
86·4	84·5	82·8	81·7	81·4	81·0	80·2	78·3	78·3	81·3	27·4	14	37	87·2	6	35	75·7	22
84·6	83·3	81·3	80·2	79·8	79·3	78·2	77·9	77·5	79·7	26·5	15	10	85·0	2	38	75·7	23
84·0	82·4	80·8	80·1	79·7	79·1	77·8	77·3	77·4	79·2	26·2	12	38	86·5	6	35	72·8	24
85·1	83·3	81·5	80·7	80·4	79·6	79·1	77·8	76·6	79·8	26·6	13	20	89·0	6	25	73·2	25
84·3	82·8	81·3	80·7	80·5	80·1	79·6	77·9	76·5	79·7	26·5	13	10	88·5	3	20	74·2	26
84·2	82·6	80·8	79·7	79·5	78·6	77·1	76·3	75·3	78·5	25·8	14	22	85·0	4	45	**72·6**	27
83·5	81·9	80·5	79·5	78·8	77·2	76·0	76·0	76·0	78·3	25·7	12	0	84·5	6	32	74·4	28
86·3	83·7	81·4	80·3	79·6	78·9	78·0	76·5	75·4	78·2	25·7	15	0	86·8	6	30	72·7	29
83·2	81·6	79·5	79·3	78·8	77·7	77·3	75·8	7 ·9	**78·1**	**25·6**	12	10	84·6	6	10	73·4	30
86·5	84·6	82·8	81·7	81·3	80·6	79·8	78·9	78·4	81·0	27·2							Mean.
+5·5	+3·6	+1·8	+0·7	+0·3	—0·4	—1·2	—2·1	—2·6									Variation.
30·3	29·2	28·2	27·6	27·4	27·0	26·6	26·1	25·8									Mean in °C.
+3·1	+2·0	+1·0	+0·4	+0·2	—0·5	—0·6	—1·6	—1·4									Variation in °C.

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81·9	80·2	78·3	77·5	77·3	77·1	76·6	74·7	72·7	76·8	24·9	13	40	84·1	1	45	72·2	1
81·2	79·6	77·8	76·9	76·4	75·5	74·1	72·2	71·6	75·2	24·0	13	54	82·4	6	42	70·2	2
79·5	78·0	76·3	75·3	74·2	73·2	72·3	70·8	71·2	73·0	22·8	14	40	80·0	5	50	65·9	3
80·2	78·7	76·6	75·5	75·4	74·4	73·0	72·0	72·3	73·4	23·0	14	38	80·8	6	20	67·2	4
80·6	79·5	77·2	76·0	75·8	75·0	73·5	72·3	72·6	74·3	23·5	14	15	81·6	6	12	68·4	5
80·4	79·3	77·4	76·1	75·5	74·6	72·5	70·8	70·6	73·8	23·2	14	28	81·0	4	13	67·5	6
80·5	79·0	77·2	76·1	75·6	74·7	72·8	70·9	71·0	73·9	23·3	13	58	81·2	5	55	67·1	7
80·1	78·5	77·0	76·0	75·0	73·4	72·3	71·4	70·5	73·8	23·2	14	18	81·4	5	40	67·5	8
80·4	79·2	77·9	77·2	76·4	75·1	73·5	72·5	71·4	74·3	23·5	12	55	81·5	2	50	67·5	9
81·8	80·6	79·0	77·6	77·3	77·0	76·2	75·3	75·4	76·2	24·6	13	35	84·0	4	10	69·5	10
81·1	80·1	79·1	78·2	77·8	77·6	77·1	76·5	75·9	77·5	25·3	11	58	83·6	4	16	72·5	11
80·9	79·2	77·7	76·7	76·7	76·7	75·8	74·6	73·9	76·9	24·9	11	50	82·5	3	23	73·4	12
80·6	80·0	78·9	77 9	77·7	77·0	76·3	75·5	75·2	75·8	24·3	13	35	81·4	5	59	70·0	13
82·2	80·9	79·6	78·6	78·3	77·6	77·1	77·3	76·9	77·5	25·3	13	25	83·5	5	15	72·2	14
83·3	82·1	80·9	79·6	79·2	78 8	78·1	77·7	77·5	78·9	26·1	12	45	84·1	5	7	75·2	15
84·1	82·5	81·2	80·5	80·3	79·4	78·5	78·0	77·7	**79·5**	**26.4**	12	19	86·1	6	8	75·2	16
83·0	81·6	80·3	79·0	78·2	77·3	77·2	76·5	76·1	79·3	26·3	12	47	**86·5**	5	5	75·6	17
81·9	80·9	78·9	77·2	76·1	75·8	75·0	73·8	73·2	76·7	24·8	13	40	82·5	6	3	72·3	18
78·8	77·0	76·0	75·4	75·2	74·7	74·0	73·8	73·7	74·4	23·6	14	20	79·9	6	3	70·5	19
77·4	76·6	75·5	74·4	73·6	72·8	72·3	72·3	71·7	73·4	23·0	14	48	78·2	6	25	70·1	20
76·8	74·8	73·5	72·6	71·9	70·8	69·6	68·5	67·3	71·4	21·9	14	13	77·7	6	0	67·1	21
75·3	73·9	72·4	71·6	71·5	71·0	70·6	70·1	69·2	**69·7**	**20·9**	14	27	76·1	7	27	**65·0**	22
78·2	76·8	75·2	74·3	73·4	73·4	73·4	72·1	71·4	72·3	22·4	13	37	78·7	3	3	66·2	23
79·1	77·8	76·2	75·6	75·4	75·4	74·7	73·3	72·4	74·2	23·4	12	23	80·4	6	12	68·	24
84·3	81·9	79·0	77·5	76·6	76·6	76·4	75·1	74·6	77·4	25·2	13	27	86·3	4	20	71·1	25
80·9	79·5	77·9	76·6	76·4	76·4	75·8	74·7	73·7	77·1	25·1	12	47	85·5	4	5	72·4	26
79·7	78;9	77·1	76·4	76·2	76·0	75·5	73·6	72·1	75·9	24·4	12	30	81·3	23	59	71·3	27
79·0	77;7	76·0	75·0	74·6	74·0	72·6	71·4	70·6	73·8	23·2	14	35	79·6	6	40	68·2	28
77·7	76·8	75·1	73·6	72·9	72·0	71·3	70·8	70·4	72·4	22·4	13	20	78·1	6	50	66·7	29
78·4	77;4	76·0	74·6	74·5	74·0	72·9	72·3	72·4	73·6	23·1	14	57	78·6	5	23	69·0	30
78·0	76;5	74·9	73·6	73·1	72·6	72·5	72·0	71·1	73·7	23·2	14	53	78·2	5	40	70·4	31
80·2	78;9	77·3	76·2	75·8	75·2	74·3	73·3	72·8	75·0	23·9							Mean.
+5·2	+3;9	+2·3	+1·2	+0·8	+0·2	—0·7	—1·7	—2·2									Variation.
26·8	26·1	25·2	24·6	24·3	24·0	23·5	22·9	22·7									Mean in °C.
+2·9	+2·2	+1·3	+0·7	+0·4	+0·1	—0·4	—1·0	—1·2									Variation in °C.

RELATIVE HUMIDITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN PERCENTAGES.)

Date.	Hours (B. M. T.).												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	56	60	65	60	54	47	48	47	51	49	46	42	41
2	71	72	72	68	66	70	75	75	66	63	58	50	40
3	64	75	75	75	72	68	66	69	66	65	59	57	46
4	71	82	82	77	79	82	78	78	74	70	62	61	56
5	80	81	81	81	75	73	70	57	59	53	50	45	45
6	53	53	52	51	44	53	59	48	55	53	46	46	47
7	69	69	67	65	70	71	69	69	66	56	50	41	37
8	75	80	79	71	66	68	71	67	66	61	58	49	32
9	72	71	72	75	72	74	77	75	72	66	59	52	50
10	80	81	80	80	72	73	78	78	72	69	63	60	49
11	71	71	57	57	61	59	53	54	50	46	43	45	42
12	58	55	48	44	47	48	49	38	38	38	42	42	46
13	71	73	72	70	73	71	63	66	69	64	62	61	61
14	63	63	65	69	69	72	72	71	66	65	60	52	43
15	80	81	84	81	77	76	80	77	70	66	66	60	57
16	69	68	65	70	70	70	66	68	66	62	58	54	54
17	84	85	83	77	75	68	70	71	67	61	59	56	54
18	80	78	78	77	79	78	74	63	56	63	54	46	48
19	54	51	65	71	64	58	67	70	68	63	57	53	46
20	75	76	75	78	74	69	74	74	64	60	60	57	59
21	80	83	80	82	76	73	71	70	66	59	60	59	56
22	70	81	81	79	79	75	78	81	75	66	65	64	63
23	80	78	68	66	73	67	71	71	69	63	59	54	48
24	65	65	79	79	77	72	76	75	70	71	64	58	55
25	77	82	85	86	85	87	87	86	80	74	72	67	62
26	85	86	84	82	84	85	86	84	78	72	66	61	59
27	66	71	68	69	78	77	78	71	64	63	57	56	49
28	74	82	88	88	83	78	74	71	69	68	64	59	65
29	86	89	89	90	90	84	87	84	76	71	67	66	63
30	78	81	81	80	77	78	77	69	71	60	56	57	58
31	75	78	82	84	85	85	84	82	76	74	72	70	70
Mean .	72·0	74·2	74·3	73·6	72·5	71·3	71·9	69·6	66·3	62·4	58·5	54·8	51·6
Mean Vapour Pressure in inches of mercury.*	·523	·534	·527	·514	·499	·484	·482	·476	·495	·501	.509	·512	·512

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1	78	79	79	75	74	69	71	64	63	65	63	54	49
2	81	82	80	81	84	86	83	82	80	71	67	63	66
3	88	88	87	87	84	86	86	84	80	73	67	64	68
4	87	87	89	89	90	89	89	88	83	79	73	65	61
5	84	85	86	87	87	87	88	88	83	79	75	70	71
6	78	76	79	81	83	84	84	85	80	77	75	68	67
7	78	80	80	79	80	83	82	83	78	71	65	61	62
8	77	76	77	78	78	78	78	78	70	67	63	61	62
9	79	79	80	81	81	80	81	77	75	71	67	65	58
10	78	80	81	83	81	83	82	79	78	71	69	67	62
11	80	81	80	80	80	81	82	81	76	77	89	91	91
12	67	64	66	63	67	69	74	76	74	69	58	51	40
13	51	53	56	64	69	73	73	72	68	64	57	50	46
14	67	65	67	67	69	68	70	71	68	67	65	55	52
15	67	67	65	65	66	64	68	68	64	65	58	46	41
16	71	78	76	75	78	79	78	75	70	67	64	66	62
17	83	83	83	85	85	85	85	84	81	79	74	67	67
18	83	83	86	88	88	88	88	87	84	79	73	63	57
19	83	83	85	86	88	88	88	87	84	81	77	74	72
20	81	80	81	82	84	83	84	83	80	76	73	70	60
21	74	76	78	81	80	81	82	81	77	74	70	67	66
22	81	81	82	83	84	84	84	84	80	77	74	72	68
23	83	84	82	82	81	82	80	73	68	65	65	67	67
24	88	89	90	90	90	90	90	88	83	78	74	74	70
25	80	79	81	84	84	83	84	81	78	74	70	71	68
26	81	79	80	81	82	84	84	82	79	76	76	71	66
27	79	79	78	77	81	79	78	77	73	68	64	61	56
28	71	74	76	77	73	72	75	74	62	58	57	56	58
Mean .	77·8	78·2	78·9	79·7	80·4	80·6	81·1	79·7	75·7	72·1	68·6	64·6	62·2
Mean Vapour Pressure in inches of mercury.*	·618	·617	·614	·614	·615	·612	·610	·614	·624	·627	·627	·616	·613

*Computed from mean temperatures and mean relative humidities.

(Averages for sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN PERCENTAGES.)

Hours (B.M.T.).											Mean.	Mean Vapour Pressure in inches of mercury.*	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
39	44	49	55	55	57	60	61	59	60	71	53·2	·421	1
26	40	52	55	67	75	77	72	61	61	64	62·3	·519	2
40	37	37	58	68	77	81	82	76	71	69	64·7	·540	3
54	58	58	61	67	74	76	74	73	69	73	70·4	·568	4
46	49	53	57	63	62	62	54	51	48	49	60·2	·475	5
50	50	51	57	62	68	72	73	71	68	63	56·0	·426	6
38	42	50	55	65	70	73	71	71	64	67	61·1	·487	7
35	48	56	64	69	74	76	80	76	71	71	65·1	·507	8
54	56	59	64	70	68	70	71	69	67	76	67·1	·510	9
51	52	56	61	67	69	72	74	68	64	68	68·2	.515	10
52	54	54	57	58	63	65	63	61	59	55	56·3	·431	11
49	51	50	58	65	65	67	64	64	59	70	52·3	·389	12
61	63	65	67	69	72	74	75	66	59	61	67·0	·521	13
57	64	66	68	70	72	74	74	74	75	76	66·7	·544	14
56	57	59	59	59	66	70	74	71	62	64	68·8	·561	15
61	62	62	64	68	70	72	72	76	78	83	67.0	·552	16
61	63	60	66	72	72	71	65	63	69	80	68.8	·571	17
54	56	63	67	71	71	75	78	73	67	65	67·3	·545	18
53	52	52	60	66	70	68	65	63	68	72	61·5	·502	19
62	65	68	68	71	74	75	77	78	77	75	70·2	·546	20
59	60	66	70	74	73	74	76	74	65	69	69·8	·566	21
65	67	69	61	62	63	65	68	67	72	74	70·4	·580	22
56	62	61	65	66	66	67	65	70	65	64	65·6	·551	23
60	63	63	70	75	78	79	78	78	79	80	71·2	·569	24
63	61	59	67	72	77	79	79	83	83	83	76·5	·614	25
61	59	63	63	64	65	66	58	63	65	70	71·2	·573	26
50	59	63	70	72	74	74	74	77	79	76	68·1	·580	27
71	69	71	76	80	86	86	86	84	78	78	76·2	·662	28
53	56	57	62	67	73	73	69	66	64	69	73·0	·645	29
60	60	61	63	67	69	69	72	75	74	73	69·4	·609	30
69	67	61	65	66	74	69	68	70	74	76	74·0	·613	31
53·7	56·4	58·5	63·0	67·3	70·5	72·0	71·4	70·0	68·2	70·5	66·4	·538	Mean.
·543	·569	·580	·599	·601	·599	·599	·580	·550	·516	·523	·534		Mean Vapour Pressure in inches of mercury.*

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56	59	62	66	74	74	77	76	76	78	80	69·2	·574	1
64	61	62	69	71	76	81	84	85	88	87	76·4	·649	2
59	61	60	56	60	69	73	78	81	84	86	75.4	·666	3
62	63	63	65	69	73	75	78	80	82	83	77·6	·663	4
70	70	68	66	64	66	68	74	77	77	79	77·0	·661	5
68	64	66	63	65	66	68	70	72	76	76	73·8	·648	6
62	64	62	50	59	64	65	68	68	71	73	70·3	·603	7
60	62	63	64	68	70	72	73	73	75	77	70·8	·603	8
56	58	59	60	62	66	69	70	71	74	76	70·6	·606	9
61	58	57	62	66	69	72	73	75	77	78	72·6	·629	10
79	74	69	71	73	75	76	74	69	65	67	77·5	·674	11
39	43	46	42	42	48	53	51	51	50	48	56·3	·459	12
45	42	43	46	51	60	63	61	58	65	66	58·2	·468	13
51	50	50	50	55	58	57	60	62	62	67	61·4	·488	14
48	53	55	57	63	68	70	74	75	72	67	62·7	·511	15
60	59	61	62	63	66	68	73	74	74	78	69·9	·594	16
65	65	66	67	70	73	74	76	79	81	81	76·6	·664	17
60	52	53	58	62	67	70	72	76	79	80	74·0	·654	18
63	61	61	58	60	65	69	73	77	80	81	76·0	·654	19
65	63	59	56	57	62	63	67	69	72	74	72·2	·640	20
65	64	64	64	66	68	70	72	76	78	79	73·0	·639	21
64	64	64	66	67	71	75	77	79	79	81	75·9	·675	22
69	69	69	72	74	79	80	79	76	82	88	75.7	·669	23
68	68	70	71	73	76	79	81	81	82	81	80·2	·716	24
68	68	68	71	73	77	79	80	79	81	81	76·7	·692	25
63	65	66	69	70	73	75	75	77	78	79	75·5	·701	26
53	54	56	57	60	60	59	63	65	68	72	67·4	·594	27
57	58	59	62	63	63	63	64	68	65	59	65·2	·550	28
60·7	60 4	60·7	61·4	64·3	67·9	70·1	72·0	73·2	74·8	75·9	71·7	·619	Mean.
·610	·613	·614	.605	·603	·606	·611	·616	·613	·612	·611	·614		Mean Vapour Pressure in inches of mercury.*

*Computed from mean temperatures and mean relative humidities

RELATIVE HUMIDITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN PERCENTAGES.)

Date.	Hours (B. M. T.).												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	62	74	77	79	68	67	66	64	61	62	60	58	55
2	72	80	78	79	80	80	76	78	77	72	67	63	63
3	81	81	79	81	85	83	77	79	75	63	52	46	48
4	76	75	79	85	86	85	83	82	72	64	59	58	59
5	77	77	79	82	82	77	75	73	64	48	48	44	45
6	69	72	74	75	78	74	74	72	66	66	63	61	61
7	78	76	75	76	78	80	83	82	77	71	66	64	62
8	74	74	75	78	76	79	81	80	73	69	65	64	66
9	75	77	80	81	83	83	82	77	69	63	59	59	54
10	67	68	70	73	76	77	77	76	72	67	66	63	60
11	57	56	58	63	68	69	73	72	64	61	58	56	54
12	64	57	63	70	72	71	73	71	66	65	64	65	67
13	72	70	76	78	80	80	78	72	58	52	52	47	50
14	69	71	74	76	77	75	75	71	61	58	52	53	55
15	46	59	73	72	73	75	76	74	66	59	57	62	64
16	84	80	71	72	72	76	80	82	78	73	71	71	68
17	77	77	74	74	80	84	85	78	66	64	59	51	49
18	70	73	73	77	79	81	81	78	66	61	53	56	50
19	78	81	81	83	85	87	86	84	80	77	74	63	61
20	80	81	81	80	81	82	83	83	78	76	73	70	67
21	82	83	85	86	83	85	86	86	80	78	75	73	67
22	78	79	81	83	86	87	87	85	82	79	77	73	71
23	80	80	81	83	82	82	83	80	68	60	55	57	59
24	77	78	76	79	80	78	75	73	71	70	72	71	66
25	75	75	73	75	78	75	75	72	67	62	67	67	68
26	82	83	85	86	87	87	88	81	73	62	52	51	51
27	85	87	87	89	90	90	89	86	76	73	61	49	50
28	84	83	85	85	85	85	86	85	82	76	74	73	66
29	75	75	75	67	60	60	63	57	52	45	54	59	64
30	55	65	58	44	43	53	64	63	75	67	58	59	52
31	68	64	71	75	76	72	70	70	70	71	65	56	59
Mean .	73·2	74·5	75·7	77·0	77·7	78·0	78·4	76·3	70·5	65·6	62·2	60·1	59·1
Mean Vapour Pressure in inches of mercury.*	·654	·663	·667	·665	·660	·654	·652	·661	·659	·649	·651	·651	·660

APRIL.

1	74	75	75	76	78	76	77	73	66	54	61	63	65
2	84	84	85	84	83	82	72	70	55	54	53	55	53
3	64	73	79	77	78	73	66	61	48	48	54	55	56
4	76	74	74	76	78	79	77	69	51	45	49	45	39
5	60	57	57	58	64	68	71	68	65	62	56	51	49
6	61	65	70	71	72	72	73	71	67	65	61	55	55
7	77	77	77	79	82	82	81	78	73	62	59	62	63
8	81	82	83	84	84	84	85	82	78	70	63	66	66
9	78	79	82	84	85	84	85	83	78	72	71	71	67
10	76	77	79	82	78	80	80	77	75	73	69	67	67
11	79	79	78	80	83	84	82	81	74	69	69	71	71
12	84	84	86	86	85	85	84	78	74	70	68	70	66
13	86	86	85	85	84	84	85	83	78	71	70	72	68
14	72	75	76	75	74	76	80	77	76	72	72	72	72
15	82	83	83	83	83	83	83	81	75	72	75	72	71
16	83	84	82	82	80	83	83	82	79	75	76	74	70
17	85	85	82	81	81	85	84	76	77	75	72	70	69
18	84	84	80	81	81	80	80	81	77	75	72	69	70
19	82	83	83	85	86	86	84	80	76	74	72	66	66
20	72	71	74	76	77	78	78	76	74	70	69	68	70
21	80	79	76	77	81	83	82	79	76	73	72	73	66
22	84	85	85	85	85	86	84	81	77	76	73	70	70
23	78	78	80	80	81	82	80	77	75	72	69	68	63
24	79	78	77	77	76	74	74	71	69	67	65	61	59
25	79	76	75	76	76	75	76	71	68	64	65	63	63
26	78	80	80	82	84	82	82	80	75	73	67	64	63
27	69	70	72	73	72	70	67	67	59	62	64	65	64
28	64	69	74	76	77	77	76	72	70	68	64	59	57
29	82	81	80	80	80	80	78	75	70	68	66	64	62
30	70	69	72	74	77	81	80	79	75	61	52	46	45
Mean .	76·8	77·4	78·0	78·8	79·5	79·8	79·0	76·0	71·0	67·1	65·6	64·2	62·8
Mean Vapour Pressure in inches of mercury.*	·780	·778	·776	·779	·781	·779	·779	·784	·782	·773	·783	·789	·789

* Computed from mean temperatures and mean relative humidities.

(Averages for sixty minutes from full hour to full hour of local mean time.)

MARCH.

(IN PERCENTAGES.)

Hours (B. M. T.).											Mean.	Mean Vapour Pressure in inches of mercury.*	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
55	56	60	61	64	68	68	70	74	78	76	66·0	·577	1
60	62	63	65	71	74	74	74	77	75	70	72·1	·648	2
51	58	59	58	62	64	63	65	73	75	78	68·2	·651	3
62	62	59	57	58	63	64	66	72	74	75	69·8	·692	4
49	53	52	54	55	58	59	61	63	67	69	63·0	·605	5
57	56	57	62	63	67	68	73	75	78	79	68·3	·620	6
59	59	54	53	55	60	64	64	66	72	74	68·7	·624	7
61	57	53	55	52	54	57	60	64	69	71	67·0	·618	8
53	56	61	60	60	62	62	61	63	65	66	67·1	·619	9
59	56	49	48	50	54	57	55	53	59	59	63·0	·585	10
54	54	54	54	57	60	61	64	70	74	72	61·8	.580	11
66	66	66	63	63	65	64	66	68	74	75	66·8	·621	12
50	50	47	45	49	53	54	60	68	70	67	61·6	·582	13
53	51	49	50	52	55	56	62	56	45	46	60·1	·585	14
66	65	61	62	64	66	66	70	72	82	83	67·2	·675	15
68	67	64	62	66	67	72	73	75	76	76	72·7	·728	16
55	58	61	63	68	71	71	75	74	65	68	68·6	·650	17
51	51	52	55	58	63	65	69	70	73	75	65·8	.613	18
59	56	56	57	58	63	67	71	74	77	79	72·4	·673	19
67	66	67	69	70	73	75	77	78	79	79	75·6	·700	20
67	69	70	67	67	70	73	73	77	78	75	76·5	·734	21
69	66	59	60	62	65	68	71	75	78	78	75·0	·757	22
61	63	67	69	70	70	68	71	74	66	68	70·7	·737	23
62	62	62	62	63	64	64	68	72	72	73	70·4	·717	24
66	64	61	58	59	66	71	73	77	79	80	70·1	·695	25
59	56	58	62	67	74	77	81	84	86	86	73·3	·723	26
48	51	59	59	63	69	74	77	78	82	84	73·2	·726	27
62	60	61	72	77	79	78	79	81	80	76	77·3	·777	28
67	70	71	64	62	61	60	50	54	52	52	61·2	·632	29
58	59	61	62	58	62	66	67	66	63	66	60·2	·676	30
63	68	72	72	75	72	67	70	70	72	72	69·2	·714	31
59·3	59·6	59·5	60·0	61·9	64·9	66·2	68·3	70·7	72·1	72·5	68·5	·662	Mean.
·668	·672	·666	·652	·647	·646	·646	·656	·663	·659	·656	·657		Mean Vapour Pressure in inches of mercury.*

APRIL.

64	69	66	66	71	76	77	78	80	80	81	71·7	·723	1
61	63	64	66	69	69	71	70	69	62	64	68·4	·724	2
57	59	57	58	61	62	64	67	73	77	76	64·3	·718	3
40	37	37	40	43	45	49	54	59	60	58	56·4	·578	4
50	47	49	52	55	57	61	63	64	64	63	58·8	·557	5
57	60	60	59	63	66	69	72	73	76	77	66·3	·638	6
58	58	59	62	67	72	76	77	80	80	81	71·7	·700	7
60	60	62	65	67	71	73	75	76	77	77	73·8	·723	8
67	67	68	67	71	75	78	80	79	78	76	76·0	·756	9
68	68	69	70	73	75	77	78	79	80	80	74·9	·763	10
70	69	69	70	74	77	78	80	81	83	85	76·5	·808	11
67	66	67	70	72	77	80	83	83	84	85	77·3	·822	12
65	61	53	53	56	57	60	67	70	73	72	71·8	·796	13
72	71	71	72	72	76	78	79	79	81	81	75·0	·837	14
70	70	70	72	72	74	77	79	80	81	81	77·2	·870	15
66	65	67	68	73	77	79	82	82	83	83	77·4	·869	16
67	67	68	72	74	79	80	82	81	81	83	77·3	·885	17
67	65	68	72	73	76	78	76	78	81	83	76·3	·905	18
66	64	66	68	67	66	67	67	70	71	71	73·6	·887	19
67	64	64	66	69	73	75	77	77	78	78	72·5	·871	20
66	69	69	70	70	74	76	79	80	82	83	75·6	·885	21
68	68	66	62	67	73	74	75	77	78	77	76·1	·888	22
67	64	63	66	72	75	77	79	79	80	80	74·4	·879	23
59	60	62	63	67	73	77	79	79	79	78	71·0	·823	24
62	62	64	66	68	72	74	73	76	77	77	70·7	·807	25
62	62	63	66	70	73	75	76	77	70	69	73·0	·822	26
65	64	64	65	64	65	66	70	73	74	67	67·1	·793	27
56	56	56	60	63	69	73	76	78	79	80	68·7	·815	28
61	60	62	64	68	73	77	75	71	69	69	71·5	·827	29
49	53	53	55	64	68	71	73	74	74	75	66·3	·776	30
62·5	62·3	62·5	64·2	67·2	70·5	72·9	74·7	75·9	76·4	76·3	71·7	·791	Mean.
·791	·788	·786	·784	·784	·784	·792	·799	·802	·796	·787	·785		Mean Vapour Pressure in inches of mercury.*

* Computed from mean temperatures and mean relative humidities.

RELATIVE HUMIDITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

MAY. (IN PERCENTAGES.)

Date.	Hours. (B. M. T.)												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	75	76	76	77	78	78	77	74	72	68	64	65	63
2	77	77	78	78	80	80	78	76	75	71	68	65	64
3	78	78	80	81	80	81	81	79	74	68	67	69	68
4	83	83	83	83	84	85	83	80	76	74	72	70	69
5	76	78	78	78	79	79	78	75	70	69	67	66	63
6	71	72	72	72	74	75	74	70	65	63	61	60	59
7	73	73	74	75	74	75	73	72	68	66	63	62	60
8	74	75	75	76	76	77	76	73	69	65	65	62	61
9	74	76	76	78	78	80	79	78	71	67	64	64	63
10	73	73	73	74	74	75	74	73	75	71	63	60	59
11	75	77	77	79	77	78	77	75	71	68	69	68	69
12	83	82	83	84	84	84	83	81	77	76	74	73	73
13	81	80	82	83	83	84	84	81	76	74	72	71	71
14	78	81	83	83	84	84	83	81	76	71	72	71	70
15	75	75	76	78	77	78	77	74	72	70	69	69	69
16	82	82	85	86	86	86	85	83	77	75	72	71	70
17	83	81	81	84	85	85	85	82	75	72	70	69	68
18	81	81	81	81	81	80	79	76	73	70	69	67	66
19	77	77	77	77	77	77	77	74	69	67	67	66	64
20	76	77	79	79	79	79	78	76	74	70	67	66	67
21	78	78	79	81	81	81	78	75	72	68	67	67	66
22	75	76	78	77	78	78	77	74	70	69	66	65	62
23	76	77	78	78	78	79	77	75	72	70	67	66	63
24	75	76	77	77	77	77	77	75	72	68	66	65	63
25	75	75	75	77	75	75	74	72	68	65	64	61	61
26	72	72	73	74	75	76	75	71	66	65	63	62	61
27	74	75	75	75	74	75	73	71	68	66	64	62	63
28	77	77	78	77	75	75	75	74	70	67	67	64	63
29	78	79	79	80	79	79	78	76	73	70	67	67	66
30	77	78	78	78	76	75	74	71	69	67	65	63	63
31	73	73	73	72	74	74	72	71	68	65	63	61	62
Mean	76·6	77·1	77·8	78·5	78·5	78·8	77·8	75·4	71·7	68·9	66·9	65·7	64·8
Mean Vapour Pressure in inches of mercury.*	·841	·841	·843	·840	·834	·834	·843	·844	·850	·847	·855	·855	·859

JUNE.

1	72	72	73	74	72	72	72	70	66	65	63	63	62
2	75	74	76	75	75	76	75	73	70	67	66	63	63
3	75	75	75	75	74	75	74	74	70	67	66	64	64
4	77	76	77	77	77	77	75	74	69	66	64	63	61
5	75	74	73	72	71	73	71	68	67	63	61	61	61
6	73	73	74	73	74	74	70	68	64	62	62	61	60
7	72	73	72	73	72	71	71	69	67	66	64	64	63
8	76	76	77	77	77	77	77	75	71	71	68	67	65
9	78	77	77	77	77	79	78	78	72	71	70	66	66
10	78	78	79	78	78	79	77	75	72	69	68	66	67
11	79	79	79	79	79	80	81	78	75	72	69	68	64
12	75	81	85	86	88	89	88	83	79	77	75	75	74
13	82	82	83	83	85	86	84	81	78	75	70	64	67
14	83	84	88	89	87	87	89	89	83	78	77	74	72
15	84	84	87	87	85	85	85	83	80	77	74	73	73
16	85	85	87	87	88	90	91	87	89	83	83	83	81
17	84	85	85	83	86	85	87	86	89	91	85	86	88
18	82	85	85	86	88	90	89	88	85	86	85	90	88
19	87	86	86	87	89	89	90	85	83	87	91	91	88
20	89	88	89	89	90	93	92	93	94	93	91	92	91
21	86	87	85	85	87	89	89	90	87	89	89	88	90
22	93	93	94	94	92	88	88	82	90	91	89	91	87
23	83	82	81	82	82	81	83	82	81	82	82	79	79
24	85	86	87	85	84	88	89	83	81	89	88	91	71
25	88	89	90	92	89	88	87	88	87	86	87	87	82
26	84	88	83	87	87	87	89	88	86	83	83	80	85
27	86	87	87	86	84	85	86	87	87	84	81	83	83
28	85	85	84	83	83	85	85	84	86	83	83	82	81
29	84	85	85	87	87	87	87	89	87	86	87	86	86
30	91	91	92	91	91	92	85	84	83	81	79	79	79
Mean	81·5	82·0	82·5	82·6	82·6	83·2	82·8	81·1	79·3	78·0	76·7	76·0	74·7
Mean Vapour Pressure in inches of mercury.*	·901	·903	·897	·895	·892	·899	·900	·899	·911	·913	·921	·925	·915

*Computed from mean temperatures and mean relative humidities.

(Averages for sixty minutes from full hour to full hour of local mean time.)

MAY. (IN PERCENTAGES.)

Hours (B.M.T.)											Mean.	Mean Vapour Pressure in inches of mercury.*	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
64	65	65	68	72	77	77	78	79	78	77	72·6	·797	1
64	65	67	70	74	77	78	79	78	79	77	74·0	·831	2
67	64	66	65	66	70	71	75	79	80	82	73·7	·847	3
68	68	69	72	76	78	78	79	80	81	79	77·2	·881	4
57	55	54	55	59	66	66	66	65	68	70	68·2	·786	5
59	58	59	59	61	63	66	69	70	71	72	66·5	·759	6
61	61	63	66	70	72	73	74	75	75	74	69·7	·803	7
61	62	62	65	69	72	75	75	75	75	74	70·4	·798	8
62	62	62	65	68	70	73	74	73	73	73	71·0	·797	9
60	62	63	66	69	73	75	75	76	77	76	70·4	·801	10
69	71	73	74	77	79	78	78	80	81	83	75·1	·868	11
75	74	71	69	72	75	77	77	78	76	77	77·4	·913	12
70	71	71	72	76	79	81	81	81	81	77	77·6	·909	13
71	70	69	69	72	75	75	74	70	75	77	75·6	·888	14
69	71	73	73	77	83	86	86	86	85	84	76·3	·900	15
70	70	70	71	75	79	81	82	83	83	83	78·6	·909	16
67	67	67	69	70	74	76	77	77	79	80	76·0	·884	17
67	67	67	70	71	74	75	75	76	75	75	74·0	·884	18
64	64	66	67	69	72	73	74	74	75	77	71·7	·870	19
65	65	66	67	69	73	74	76	77	78	79	73·2	·894	20
66	65	66	66	69	71	73	76	75	75	75	72·8	·889	21
61	62	61	64	66	69	72	74	75	75	77	70·9	·866	22
61	61	61	64	66	69	70	73	73	75	75	71·0	·875	23
63	62	62	64	67	71	74	74	73	75	74	71·0	·861	24
57	56	62	63	66	68	71	73	72	73	73	68·8	·829	25
61	61	62	64	67	71	73	74	74	74	74	69·2	·823	26
63	64	64	67	70	74	75	76	77	77	77	70·8	·856	27
63	64	65	68	72	75	76	77	75	79	79	72·2	·879	28
66	65	66	67	69	72	74	74	75	76	76	73·0	·885	29
62	63	62	65	66	68	69	69	70	71	73	69·7	·838	30
61	61	62	64	65	68	70	70	70	71	72	68·1	·826	31
64·3	64·4	65·0	66·7	69·5	72·8	74·4	75·3	75·5	76·3	76·5	72 5	·853	Mean.
·858	·860	·859	·857	·857	·855	·857	·859	·853	·854	·851	·850		*Mean Vapour Pressure in inches of mercury.

JUNE.

63	63	64	65	66	68	70	70	74	74	75	68·7	·844	1
64	64	64	66	68	71	72	74	74	75	74	70·6	·876	2
63	64	66	66	67	71	74	74	74	76	75	70·7	·886	3
61	61	63	64	67	69	71	72	72	73	74	70·0	·877	4
60	60	60	62	65	66	68	70	70	71	70	67·2	·831	5
58	60	60	63	66	67	68	70	72	74	73	67·5	·835	6
63	63	62	63	65	69	69	72	72	74	76	68·5	·856	7
65	67	65	66	69	72	74	75	78	76	78	72·5	·923	8
68	66	66	68	69	73	74	76	76	78	78	73·3	·945	9
65	65	66	66	69	73	74	75	76	77	78	72·8	·944	10
63	63	62	65	69	69	71	73	72	74	74	72·4	·954	11
71	69	69	72	77	78	86	85	86	87	85	80·0	·907	12
73	69	71	72	72	76	76	77	78	79	80	76·8	·905	13
76	80	89	81	83	85	83	83	83	87	89	83·3	·915	14
73	75	79	76	76	79	81	82	83	83	84	80·3	·919	15
81	79	81	81	84	89	90	88	85	85	84	85·3	·931	16
87	84	80	78	82	82	83	82	83	81	81	84·3	·922	17
86	86	92	92	91	91	90	91	87	88	91	88·0	·926	18
84	82	80	83	85	86	85	84	83	84	86	85·9	·886	19
91	92	89	88	90	85	86	87	88	89	87	89·8	·871	20
89	89	91	89	90	89	90	90	91	90	90	88·7	·898	21
86	87	85	87	85	83	83	83	83	83	83	87·5	·912	22
80	81	82	83	85	83	85	83	81	82	82	81·9	·923	23
85	85	93	91	89	91	91	87	91	88	88	86·9	·905	24
85	81	80	82	85	86	87	87	87	87	85	86·3	·938	25
88	87	85	88	90	87	87	86	87	87	87	86·2	·931	26
79	78	78	81	81	83	84	85	85	85	86	83·8	·917	27
84	83	81	83	87	87	84	87	86	86	86	84·3	·941	28
88	89	89	89	89	90	90	91	93	92	92	88·1	·951	29
78	79	81	81	81	84	87	89	88	87	87	85·0	·943	30
75·2	75·0	75·8	76·4	78·1	79·4	80·4	80·9	81·3	81·7	81·9	79·5	·907	Mean.
·930	·925	·923	·915	·918	·912	·906	·909	·910	·914	·911	·910		Mean Vapour Pressure in inches of mercury.*

*Computed from mean temperatures and mean relative humidities.

(Averages for sixty miniutes from full hour to full hour of local mean time.)

JULY. (IN PERCENTAGES.)

Date.	Hours (B.M.T.).											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	87	85	85	85	84	85	85	83	83	87	85	82	82
2	87	86	87	85	86	85	87	85	86	85	83	80	80
3	86	85	85	86	85	86	87	85	83	82	80	79	77
4	82	83	83	83	82	85	85	85	86	84	82	83	83
5	87	87	86	87	84	85	85	85	86	83	84	87	85
6	87	88	87	87	87	89	87	87	84	83	89	87	82
7	84	85	83	82	84	87	88	87	87	83	81	78	79
8	87	87	87	85	86	86	85	84	83	82	79	79	88
9	91	90	93	93	93	93	92	93	92	93	89	91	89
10	83	85	86	87	87	91	93	93	93	94	93	92	94
11	94	93	92	92	93	93	93	93	91	89	88	87	87
12	90	89	91	91	90	89	92	92	93	93	90	90	92
13	89	90	91	91	92	92	93	92	93	94	92	91	92
14	93	94	92	92	92	93	94	93	91	88	87	89	88
15	88	88	88	91	90	88	89	90	88	86	84	81	82
16	88	89	88	90	87	88	89	88	87	88	90	89	83
17	90	90	89	88	88	88	88	87	88	85	83	82	84
18	87	92	90	88	87	87	86	86	86	83	82	81	80
19	87	86	86	86	85	86	91	91	88	86	86	83	83
20	87	90	87	87	87	89	91	90	87	85	86	86	87
21	83	82	83	82	84	84	83	82	82	81	80	82	80
22	92	93	93	94	92	93	93	93	91	91	91	92	92
23	91	91	91	90	93	90	91	89	89	89	88	88	87
24	88	90	90	92	89	91	87	88	88	87	86	85	84
25	89	89	91	91	89	88	88	87	87	87	88	88	86
26	88	90	90	91	91	89	91	91	91	89	87	88	88
27	89	89	89	89	91	90	89	91	89	88	89	89	90
28	91	92	91	91	91	92	93	92	92	93	92	92	89
29	89	87	88	89	88	89	88	91	90	89	87	88	85
30	92	93	92	92	93	94	92	91	90	87	87	85	85
31	88	89	87	86	84	85	84	86	86	86	82	80	79
Mean .	88·2	88·6	88·4	88·5	88·2	88·7	89·0	88·7	88·1	87·1	86·1	85·6	85·2
Mean Vapour Pressure in inches of mercury*.	·899	·897	·895	·889	·890	·891	·894	·900	·909	·914	·912	·918	·918

AUGUST.

1	91	86	86	85	84	87	87	85	85	84	83	82	82
2	85	86	86	85	86	81	87	87	86	86	88	87	84
3	85	86	86	87	86	86	86	87	85	86	86	84	84
4	87	87	88	89	87	86	87	87	87	86	85	85	85
5	86	84	86	86	87	82	82	89	87	85	84	85	83
6	87	87	86	88	90	91	91	89	89	88	87	86	85
7	87	87	87	90	90	90	89	92	87	85	84	80	81
8	87	86	85	84	84	85	88	87	83	83	83	83	84
9	85	84	85	83	85	85	85	88	84	78	81	82	79
10	82	84	84	84	82	81	80	81	80	80	80	80	76
11	83	84	82	81	83	81	82	82	85	88	85	88	87
12	85	86	88	86	86	86	85	86	86	85	82	81	81
13	87	86	85	85	85	84	84	88	84	81	85	81	78
14	89	86	86	86	86	86	86	85	85	82	79	79	77
15	84	85	84	82	82	82	81	81	81	80	79	77	77
16	82	84	84	82	81	83	83	82	78	78	79	79	80
17	83	83	83	85	84	82	84	84	79	74	75	74	76
18	84	82	82	82	86	87	86	89	89	86	82	80	79
19	84	84	82	84	85	88	90	91	91	91	86	82	79
20	84	82	82	82	82	84	84	82	81	81	83	79	76
21	80	81	82	82	83	83	85	83	82	83	82	82	81
22	81	82	82	82	80	80	82	82	81	80	77	75	76
23	82	82	83	83	81	82	84	82	79	77	76	76	74
24	80	80	80	83	83	82	80	81	85	88	83	82	81
25	79	81	83	83	83	84	81	82	81	79	77	77	76
26	83	81	79	79	82	81	81	82	79	77	77	77	77
27	84	88	89	84	87	85	85	85	85	81	79	79	79
28	82	82	80	80	81	82	81	81	80	82	83	83	79
29	79	82	80	82	83	82	82	87	90	89	87	83	81
30	83	84	82	82	82	82	82	81	79	78	77	75	77
31	84	90	84	84	86	85	90	91	89	85	81	78	82
Mean . .	84·0	84·3	83·9	83·9	84·3	84·0	84·5	85·1	83·9	82·8	81·7	80·7	79·9
Mean Vapour pressure in inches of mercury*.	·853	·853	·849	·846	·848	·842	·852	·864	·874	·883	·888	·886	·889

* Cumputed from mean temperatures and mean relative humidities.

(Averages for sixty minutes from full hour to full hour of local mean time.)

JULY. (IN PERCENTAGES.)

Hours (B. M. T.).											Mean.	Mean Vapour Pressure in inches of mercury*.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
81	83	80	79	79	82	79	83	85	84	84	83·2	·934	1
83	83	81	79	79	81	81	83	83	84	85	83·5	·919	2
85	83	83	82	81	81	81	82	81	82	81	82·8	·921	3
83	83	84	87	84	84	84	83	84	86	87	84·0	·934	4
87	90	87	85	86	84	85	84	86	87	87	85·8	·924	5
81	81	82	82	82	81	83	83	81	82	84	84·4	·912	6
78	87	87	89	90	89	90	88	87	88	87	85·3	·909	7
86	87	89	92	91	89	89	87	87	86	90	86·3	·903	8
88	85	85	84	87	87	87	85	84	85	83	88·8	·890	9
93	91	91	93	91	91	92	93	93	92	93	91·0	·900	10
88	89	92	91	90	92	91	90	86	89	88	90·5	·881	11
91	91	94	93	91	91	91	92	91	92	87	91·1	**·869**	12
91	92	91	92	93	92	93	93	90	92	94	91·9	·877	13
88	85	87	87	89	89	89	90	90	89	91	90.0	·908	14
82	85	90	87	87	86	87	89	87	89	87	87·0	·919	15
84	86	83	83	84	85	87	89	89	91	90	87·3	·928	16
81	82	80	82	83	84	87	86	89	87	87	85·7	**·938**	17
78	79	79	80	80	83	81	85	82	85	85	83·8	·920	18
83	83	82	87	86	86	86	89	88	89	88	86·3	·911	19
85	85	87	87	90	88	89	87	86	85	84	87·2	·917	20
82	82	82	83	85	86	86	89	88	91	92	83·9	·886	21
92	94	92	93	92	89	89	92	93	91	90	**92·0**	·869	22
87	88	88	88	86	89	88	87	85	91	92	89·0	·892	23
85	86	86	89	90	90	91	91	91	92	91	88·6	·879	24
87	87	87	85	87	87	86	90	90	88	89	88·0	·899	25
83	83	85	84	86	89	88	88	89	90	89	88·3	·90)	26
89	87	89	86	85	86	87	89	89	87	90	88·6	·897	27
89	85	82	83	84	85	87	89	89	88	87	89·1	·893	28
85	88	93	89	91	91	91	92	91	91	91	89·2	·903	29
87	84	84	87	86	87	87	87	88	88	87	88·5	·907	30
80	82	81	84	81	84	86	88	88	89	88	84·7	·880	31
85·2	85·7	85·9	86·2	86·3	86·7	87·0	87·8	87·4	88·1	88·0	87·3	·904	Mean.
·924	·923	·919	·907	·903	·901	·898	·903	·899	·900	·897	·904		Mean Vapour Pressure in inches of mercury.*

AUGUST.

82	80	83	81	83	83	84	85	85	85	86	84·3	·887	1
86	83	85	85	85	86	86	87	86	87	87	85·7	·890	2
83	83	85	85	87	86	85	87	87	88	85	85·6	**·898**	3
84	84	84	85	84	85	87	87	87	86	87	86·0	·896	4
80	81	81	83	84	84	85	85	83	84	85	84·2	·892	5
84	87	87	85	83	81	83	85	85	84	85	**86·4**	·874	6
83	84	81	81	78	84	85	89	87	84	86	85·5	·871	7
81	82	81	83	82	82	85	85	85	85	85	84·1	·879	8
78	79	85	81	82	83	82	81	81	83	82	82·5	·868	9
77	79	80	81	81	82	82	83	82	84	83	81·2	·855	10
89	87	87	87	85	87	85	86	84	86	85	85·0	·866	11
80	87	87	81	84	89	91	90	90	88	88	85·7	·876	12
79	81	85	85	82	80	83	83	87	90	90	84·1	·862	13
76	80	79	81	81	83	82	84	82	86	82	82·6	·858	14
77	74	76	78	82	81	81	84	84	83	83	80·7	·866	15
79	77	78	77	79	78	79	81	83	84	84	80·6	·857	16
75	74	75	77	81	82	80	77	80	82	84	79·7	·853	17
76	78	77	77	77	80	81	83	83	85	84	82·3	·852	18
76	76	78	76	78	79	81	82	82	81	82	82·8	·849	19
74	74	75	76	76	74	74	77	78	79	79	79·1	**·830**	20
77	74	74	74	79	81	78	79	80	80	81	80·3	·845	21
76	74	74	75	78	79	79	82	80	82	82	79 2	·858	22
73	76	75	75	77	77	78	81	78	78	78	78·6	·860	23
75	79	81	79	78	79	78	79	79	78	79	80·5	·842	24
76	77	74	**68**	72	81	80	82	83	80	80	79·1	.860	25
74	71	71	73	77	79	79	81	80	80	80	**78·3**	.846	26
78	78	77	81	77	78	81	84	82	79	79	81·8	·861	27
82	76	75	77	80	80	78	77	78	79	78	79·8	·845	28
79	77	76	78	78	83	81	80	79	85	84	82·0	·857	29
76	73	74	73	77	79	81	80	80	79	79	79·0	·845	30
87	83	78	78	78	77	80	80	80	79	80	82·9	858	31
79·1	79·0	79·3	79·2	80·2	81·4	81·7	82·8	82·6	82·8	83·0	22 2	·863	Mean.
·888	·881	·882	·872	·864	·854	·849	·854	·850	·849	·848	·863		Mean Vapour Pressure in inches of mercury.*

*Computed from mean temperatures and mean relative humidities.

RELATIVE HUMIDITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN PERCENTAGES.)

Date.	Hours. (B. M. T.).												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	81	82	80	80	79	88	88	86	82	80	79	75	76
2	87	88	87	86	84	84	86	85	82	83	86	82	79
3	82	81	82	82	84	82	84	86	85	81	79	77	77
4	78	80	81	80	81	80	81	80	79	77	75	73	74
5	81	82	80	80	80	82	81	80	77	74	73	73	71
6	81	80	81	80	82	82	82	80	79	83	77	74	71
7	80	81	81	81	80	80	80	79	77	77	77	74	75
8	78	78	79	70	77	80	78	80	84	84	85	82	84
9	90	90	90	92	92	89	92	91	85	83	83	80	81
10	89	90	90	88	90	89	90	91	87	82	83	86	86
11	87	87	89	88	87	89	88	90	93	94	94	90	88
12	82	84	82	82	83	82	82	83	75	78	75	77	77
13	82	82	82	82	79	79	80	79	83	80	77	81	76
14	83	84	83	85	85	88	87	87	85	82	79	74	71
15	82	84	83	82	82	82	82	79	80	83	79	76	74
16	78	80	82	82	81	82	82	83	80	80	84	80	78
17	88	90	89	89	89	89	90	90	89	87	84	81	83
18	86	86	86	88	89	88	90	91	91	89	88	83	80
19	87	87	87	87	89	89	89	89	85	83	82	79	80
20	83	86	88	87	85	86	89	88	86	84	83	81	79
21	90	91	90	91	91	91	95	99	94	93	93	93	91
22	90	88	87	90	91	91	92	93	93	94	94	93	89
23	93	94	94	93	94	92	93	93	93	93	93	91	86
24	92	93	93	93	94	95	94	91	89	88	87	83	82
25	92	93	93	93	93	93	92	91	91	88	85	83	83
26	91	91	91	92	91	92	93	89	87	85	82	81	79
27	91	90	90	87	90	89	89	88	87	87	84	77	75
28	86	86	87	87	87	88	90	89	89	87	86	84	83
29	85	86	87	89	90	91	90	89	87	84	79	78	77
30	90	88	88	88	88	90	90	89	86	83	81	77	70
Mean . .	85·5	86·1	86·1	85·8	86·2	86·7	87·3	86·9	85·3	84·2	82·9	80·6	79·2
*Mean Vapour Pressure in inches of mercury.	·851	·854	·849	·849	·847	·849	·852	·865	·875	·883	·895	·891	·892

OCTOBER.

1	84	84	86	85	84	84	86	87	87	85	81	76	71
2	88	89	89	90	91	91	91	89	87	84	81	75	75
3	84	85	85	87	89	89	90	87	83	81	78	72	74
4	89	89	89	87	86	87	87	87	83	83	81	82	78
5	91	91	90	92	92	93	93	91	86	84	81	80	81
6	89	90	90	89	89	89	89	88	87	84	83	82	82
7	89	89	89	88	91	91	90	89	87	85	81	78	75
8	86	87	85	86	87	88	90	89	80	79	77	74	68
9	87	87	87	86	86	86	87	86	84	82	80	79	77
10	82	83	83	83	83	83	80	79	76	74	76	76	77
11	87	87	87	88	91	89	89	87	85	82	78	78	72
12	87	87	87	87	88	90	89	89	85	81	77	73	65
13	82	78	83	85	82	82	84	82	73	59	65	68	67
14	77	80	81	83	84	85	88	85	80	79	76	75	71
15	65	66	69	80	80	79	79	78	76	71	65	62	53
16	66	75	75	75	75	77	77	78	72	71	66	62	58
17	80	81	81	82	82	84	84	82	78	74	69	64	64
18	80	81	83	83	83	84	84	84	79	75	68	68	68
19	76	75	76	73	76	77	75	76	76	72	63	55	42
20	69	63	63	70	74	76	75	72	68	61	51	43	37
21	67	70	72	68	74	76	80	78	75	68	65	58	56
22	78	78	75	76	79	77	79	80	74	69	60	49	54
23	74	73	67	73	76	77	77	73	66	61	55	49	40
24	73	74	70	76	74	69	75	74	66	60	56	56	59
25	82	82	83	78	82	83	84	79	77	71	63	62	61
26	87	89	90	89	90	88	89	82	81	76	68	67	63
27	88	88	89	89	89	90	90	87	81	77	68	69	66
28	74	74	73	78	75	68	74	73	67	63	61	61	63
29	73	74	73	76	74	74	73	71	72	70	67	65	65
30	77	80	80	83	84	82	82	78	75	72	67	64	67
31	84	80	74	76	72	73	65	57	63	62	54	54	54
Mean . .	80·5	80·9	80·8	82·0	82·6	82·6	83·1	81·2	77·7	74·0	69·7	67·0	64·6
*Mean Vapour Pressure in inches of mercury.	·817	·813	·802	·808	·806	·798	·806	·822	·831	·831	·824	·815	·804

* Computed from mean temperatures and mean relative humidities.

(Averages for sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN PERCENTAGES.)

Hours. (B. M. T.).										Mean.	Mean Vapour Pressure in inches of mercury.*	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
76	83	81	81	78	80	82	80	82	82	86	81·1	·842	1
76	76	76	75	78	79	79	78	81	84	82	81·8	·875	2
76	74	74	79	81	79	80	78	82	77	75	79·9	·852	3
72	72	73	73	73	77	79	80	79	79	79	77·3	·838	4
70	68	75	77	73	74	78	80	78	80	81	77·0	·832	5
70	70	70	74	73	75	77	77	78	81	80	77·4	·839	6
80	82	83	82	82	77	78	86	84	82	81	80·0	·823	7
83	84	83	89	90	89	91	93	92	86	88	83·6	·827	8
81	80	82	83	87	87	86	86	88	89	88	86·5	·855	9
85	85	83	82	84	89	85	86	87	86	91	86·8	·870	10
86	86	85	83	83	83	82	83	85	82	83	86·9	·871	11
76	75	76	79	79	80	83	79	82	80	82	79·7	·850	12
74	72	73	74	79	79	82	81	81	82	81	79·2	·847	13
75	76	75	77	81	81	79	80	84	85	85	81·3	·861	14
74	76	78	75	79	78	76	78	77	80	80	79·1	·841	15
76	75	73	77	79	84	85	88	89	88	88	81·4	·821	16
84	83	81	81	80	84	85	80	80	86	86	85·3	·833	17
77	76	76	79	80	79	78	80	81	82	82	83·5	·859	18
79	75	73	76	77	78	80	81	81	83	82	82·4	·873	19
80	81	82	82	84	85	87	90	90	90	90	85·3	·898	20
89	87	87	86	85	87	87	87	86	88	88	90·0	·884	21
86	85	83	84	85	85	86	86	86	90	92	88·9	·882	22
83	82	84	84	85	88	89	89	89	90	91	89·8	·871	23
81	80	81	84	85	89	90	91	91	90	91	88·6	·897	24
84	81	82	87	89	89	89	89	89	91	91	88·8	·916	25
80	81	84	88	89	91	91	91	91	89	89	87·8	·909	26
75	76	78	82	85	89	91	90	89	89	89	85·7	·911	27
81	79	74	75	77	78	79	81	83	84	85	83·5	·905	28
74	74	77	81	80	85	85	86	87	87	87	84·0	·901	29
68	69	69	71	73	71	79	79	80	81	84	80·5	·864	30
78·4	78·1	78·4	80·0	81·1	82·3	83·3	83·8	84·4	84·8	85·2	83·4	·865	Mean.
·898	·888	·878	·875	·862	·852	·851	·851	·854	·853	·851	·865		*Mean Vapour Pressure in inches of mercury.

OCTOBER.

70	70	70	73	76	77	80	81	82	85	87	80·5	·898	1
75	76	80	82	82	80	85	89	87	85	84	84·4	·951	2
73	73	73	74	76	87	89	91	91	91	91	83·0	·908	3
78	79	84	83	85	85	88	90	88	91	91	85·4	·899	4
80	79	77	77	80	81	84	88	88	88	89	85·7	914	5
83	81	82	83	81	83	85	85	87	86	87	85·6	·968	6
73	75	74	73	76	80	81	81	82	84	86	82·8	·948	7
71	72	72	72	73	78	80	83	85	85	87	80·6	944	8
77	78	78	80	81	83	83	84	85	82	82	82·8	979	9
77	76	74	76	78	78	82	83	82	83	87	79·6	·891	10
72	71	70	70	70	75	77	80	82	85	86	80·7	·912	11
62	65	65	68	72	73	75	71	74	76	81	77·8	·899	12
67	63	64	68	71	77	80	81	81	80	76	74 9	·849	13
71	68	64	61	56	59	57	59	63	66	67	72·3	·773	14
52	53	53	54	57	63	59	60	58	60	65	64·9	·672	15
58	57	57	58	63	66	65	68	71	75	78	68·5	·698	16
61	60	60	62	67	69	70	72	75	75	78	73·1	·747	17
66	71	71	72	75	75	75	74	77	77	78	76·3	·814	18
42	45	51	56	62	67	67	71	71	66	71	65·9	721	19
38	46	48	56	65	69	71	71	72	67	67	62·2	·674	20
56	51	53	60	65	73	77	77	73	71	80	68·5	·709	21
54	56	57	58	64	65	68	69	62	63	71	67·3	697	22
50	55	57	62	70	71	73	74	76	73	72	66·4	692	23
61	60	61	65	72	76	77	77	81	82	83	69·9	·731	24
64	64	66	70	76	81	82	81	81	84	85	75·9	841	25
62	64	66	70	75	78	78	84	86	87	88	79 0	·862	26
68	70	73	75	77	78	77	79	79	75	73	79·0	·856	27
63	59	62	61	63	63	67	66	67	72	70	67·4	·750	28
70	73	76	77	78	80	81	77	76	80	77	73 8	·802	29
68	67	71	74	77	81	81	83	80	84	87	76 8	·835	30
61	65	63	66	71	71	73	71	70	73	75	67·8	·721	31
65·3	65·9	66·8	68·9	72·1	74·9	76·4	77·4	77·8	78·4	80·0	75·4	·824	Mear.
·820	·833	·834	·833	·828	·825	·828	·825	·816	·806	·818	·818		*Mean Vapour Pressure in inches of mercury.

*Computed from mean temperatures and mean relative humidities.

RELATIVE HUMIDITY, 1937.

(Averages for sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN PERCENTAGES).

Date.	Hours (B. M. T.).												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	77	75	72	68	65	67	70	74	75	72	70	62	56
2	81	80	76	72	75	78	77	76	73	70	62	55	52
3	77	80	78	76	76	80	77	76	75	75	72	63	52
4	78	81	81	78	78	79	75	72	69	62	59	57	52
5	66	64	62	64	67	69	70	63	58	53	53	51	51
6	70	73	72	71	61	53	51	51	49	50	49	51	54
7	78	83	80	85	84	84	81	80	75	65	57	48	51
8	70	78	77	75	69	67	72	71	66	66	62	51	52
9	84	75	73	76	76	78	81	79	76	72	66	57	47
10	76	73	72	75	77	76	79	77	71	70	69	57	59
11	78	80	80	78	78	80	82	80	74	70	66	53	61
12	78	80	78	75	77	81	79	75	72	66	58	52	50
13	79	81	80	82	81	79	80	78	73	70	65	55	51
14	74	77	73	75	73	73	76	73	73	67	64	54	54
15	71	70	71	76	75	72	73	72	72	70	62	59	46
16	67	73	72	66	67	70	72	73	67	59	54	50	45
17	61	63	69	71	73	73	73	71	62	54	52	49	45
18	56	54	52	53	54	55	57	59	53	53	49	45	46
19	82	85	83	77	78	79	77	72	67	62	56	54	45
20	67	66	61	72	73	68	73	70	68	63	56	52	49
21	69	65	58	49	50	62	62	63	62	59	51	53	53
22	67	66	68	70	71	69	70	72	56	45	37	42	39
23	65	66	62	67	65	68	71	69	62	54	47	48	50
24	64	65	71	73	72	72	66	58	66	62	55	45	40
25	63	58	59	53	57	55	61	66	56	52	49	42	38
26	74	76	66	66	67	68	71	68	66	61	55	46	37
27	79	80	81	78	68	68	70	71	66	58	50	47	49
28	70	74	77	74	73	74	76	74	71	64	59	45	48
29	75	73	74	77	80	76	74	80	77	71	64	61	56
30	66	70	73	71	76	78	76	65	58	54	52	46	48
Mean .	72·1	72·8	71·7	71·4	71·2	71·7	72·4	70·9	66·9	62·3	57·3	51·7	49·2
*Mean Vapour Pressure in inches of mercury.	·695	·694	·675	·666	·657	·653	·659	·679	·681	·673	·656	·627	·626

DECEMBER.

1	70	73	70	71	71	64	61	57	52	50	48	48	45
2	66	64	61	59	64	70	68	64	58	56	48	43	41
3	46	54	61	62	64	66	68	68	66	62	57	51	43
4	67	60	61	63	59	62	68	62	55	56	52	48	40
5	65	64	69	70	67	70	72	71	68	62	54	46	34
6	63	70	75	76	73	70	71	65	66	63	56	48	48
7	75	70	72	68	67	72	73	69	66	61	56	43	44
8	61	55	51	51	55	55	61	57	58	57	55	53	47
9	61	59	66	61	62	66	70	65	58	57	48	46	48
10	46	45	43	45	45	53	61	60	57	56	47	41	45
11	69	71	75	72	65	65	64	60	57	60	48	46	52
12	60	56	55	54	54	57	66	64	66	62	56	57	57
13	63	66	67	61	62	60	59	58	54	55	56	44	49
14	69	70	58	54	56	66	73	70	65	63	60	57	56
15	79	77	80	80	80	81	80	80	75	74	69	65	66
16	86	85	81	81	84	84	82	81	79	76	72	67	61
17	86	87	85	84	83	80	75	71	66	64	52	42	40
18	72	71	75	72	74	73	74	78	73	71	63	62	55
19	78	79	82	81	76	73	79	80	80	79	75	71	71
20	72	72	75	77	80	77	73	71	68	70	69	66	64
21	71	70	73	79	74	74	73	69	61	62	61	59	50
22	52	52	51	45	45	51	56	50	51	48	45	45	45
23	65	64	65	75	68	67	76	69	70	63	57	53	52
24	81	80	82	81	80	75	78	75	72	68	61	58	59
25	79	81	83	81	82	83	83	78	72	70	65	57	51
26	74	80	79	79	78	78	78	76	73	71	62	55	52
27	74	71	70	72	72	72	78	76	71	65	56	65	62
28	61	66	61	58	58	52	57	68	53	57	51	46	51
29	77	82	75	75	73	72	65	64	64	60	54	52	52
30	77	80	78	76	78	79	78	74	71	70	68	64	65
31	83	83	84	84	86	86	88	86	81	77	75	69	66
Mean .	69·3	69·6	69·8	69·3	68·9	69·5	71·2	68·9	65·4	63·4	58·3	53 8	52·0
*Mean Vapour Pressure in inches of mercury.	·547	·542	·536	·528	·520	·519	·530	·531	·535	·553	·547	·536	·538

*Computed from mean temperatures and mean relative humidities.

(Averages for sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN PERCENTAGES.)

Hours (B. M. T.).											Mean.	Mean Vapour Pressure in inches of mercury.*	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
58	64	67	71	77	75	73	73	73	71	77	70·1	·790	1
58	66	71	70	70	71	71	70	69	71	73	70·3	·810	2
51	50	53	57	66	70	67	69	69	71	75	69·0	·795	3
47	57	65	66	66	72	66	66	57	57	63	66·8	·753	4
46	37	34	60	70	70	73	71	62	61	58	59·7	·684	5
54	56	58	62	70	76	74	72	78	79	80	63·1	·695	6
48	57	62	66	69	69	73	73	66	70	69	69·7	·729	7
53	52	53	60	70	67	72	73	76	82	84	67·4	·793	8
52	52	58	62	67	67	71	73	70	72	78	69·3	·718	9
57	56	58	66	73	78	77	80	80	82	80	71·6	·758	10
59	61	66	70	73	73	77	80	80	78	79	73·2	·778	11
68	58	59	64	72	77	76	79	78	79	79	70·8	·750	12
53	53	55	55	60	67	71	75	73	75	76	69·5	·736	13
48	51	58	64	66	68	71	67	64	68	68	66·6	·724	14
46	59	61	65	64	68	66	62	60	64	66	65·4	·718	15
40	37	37	62	67	68	64	60	63	66	60	60·8	·683	16
40	34	50	61	64	61	64	61	60	61	62	59·7	·666	17
49	50	53	58	64	69	68	67	72	77	79	58·0	·620	18
37	44	58	63	67	72	74	73	66	72	71	67·3	·704	19
55	58	61	65	69	72	72	72	68	69	73	65·5	·687	20
46	47	54	57	63	67	73	70	70	67	70	60·0	·631	21
36	37	43	52	58	63	63	68	64	71	70	58·2	·621	22
51	51	49	52	59	61	62	64	65	65	63	59·8	·605	23
46	49	53	58	62	66	69	72	61	68	63	61·5	·612	24
43	53	59	62	69	74	75	69	71	68	72	59·3	·602	25
49	54	57	60	63	67	70	74	77	77	76	64·4	·652	26
49	47	49	53	61	62	66	67	69	71	68	63·6	·619	27
51	53	53	57	62	67	70	70	68	74	77	65·9	·637	28
44	37	42	57	61	64	69	73	65	66	64	65·8	·634	29
50	46	47	56	63	61	60	62	59	61	63	60·9	·585	30
49·1	50·9	54·8	61·0	66·2	68·7	69·9	70·2	68·4	70·4	71·2	65·1	·690	Mean.
·537	·656	·691	·724	·741	·742	·745	·732	·694	·694	·690	·683		* Mean Vapour Pressure in inches of mercury.

DECEMBER.

35	45	46	50	55	60	63	55	59	58	60	56·9	·523	1
34	37	38	39	42	45	47	50	49	49	50	51·7	·451	2
39	42	42	43	47	50	55	53	48	49	59	54·0	·438	3
38	36	37	42	49	53	56	63	68	66	66	55·3	·454	4
37	43	45	49	56	60	61	70	70	64	65	59·7	·505	5
46	46	46	52	56	59	68	64	64	70	74	62·0	·516	6
41	44	50	53	57	63	64	62	60	57	65	60·5	·505	7
46	52	53	54	58	64	65	64	62	61	59	56·4	·469	8
51	55	57	57	54	47	42	44	42	40	47	54·3	·460	9
48	54	61	61	69	73	71	71	75	70	63	56·7	·511	10
53	57	63	64	67	70	69	71	73	71	65	63·6	·599	11
60	63	63	66	66	67	58	55	58	61	57	59·9	·553	12
55	57	57	55	55	61	65	71	73	66	63	59·7	·531	13
58	60	63	70	73	74	69	71	69	77	78	65·8	·619	14
69	71	71	75	77	81	80	82	84	86	86	77·0	·759	15
67	68	68	75	78	77	76	78	81	82	85	77·3	·777	16
43	52	66	71	71	76	79	82	81	73	71	70·0	·699	17
52	55	53	59	67	75	82	79	72	77	78	69·3	·635	18
70	70	73	76	78	80	81	80	75	75	68	76·3	·648	19
64	60	58	60	64	70	72	71	71	77	72	69·7	·572	20
48	47	49	53	54	54	51	55	54	49	48	59·9	·460	21
44	47	50	54	58	62	62	60	65	68	69	53·1	·385	22
56	56	57	59	63	69	72	70	71	74	76	65·3	·517	23
61	64	66	69	74	76	72	70	75	76	77	72·1	·608	24
50	56	61	71	79	81	76	72	70	73	74	72·0	·676	25
62	68	71	74	80	79	73	73	74	75	74	72·4	·673	26
68	71	70	73	74	67	63	61	65	58	59	68·5	·611	27
51	54	58	62	67	66	64	65	70	76	79	60·5	·504	28
54	49	46	47	56	59	62	67	72	73	75	63·5	·504	29
64	61	61	62	67	71	72	75	78	78	83	72·1	·596	30
61	63	61	65	69	72	73	75	74	74	76	75·5	·626	31
52·4	54·9	56·8	60·0	63·9	66·5	66·5	67·1	67·8	67·8	68·4	64·2	·561	Mean.
·550	·574	·584	·591	·598	·600	·592	·585	·574	·555	·550	·555		*Mean Vapour Pressure in inches of mercury.

*Computed from mean temperatures and mean relative humidities.

JANUARY.

Day.	Cloud Forms, amounts and directions.			Cloud Amount (All Forms).						Visibility.			Remarks on the weather of the day.
	8½ h.	12½ h.	16½ h.	6 h.	8½h.	10 h.	12½h.	16½h.	22h.	8½h.	12½h.	16½h.	
1	SW Ci 9	Ci 8	Ci 4	3	9	8	8	4	1	7	8	8	
2	Ci <1	Ci <1		<1	<1	0	<1	0	0	8	8	8	
3				0	0	0	0	0	0	8	8	8	
4		Ci 7	SW Ci 6	0	0	0	7	6	2	8	8	7	
5				<1	0	0	0	0	0	7	6	6	
6				0	0	0	0	0	0	6	8	7	
7				<1	0	0	0	0	0	7	7	7	
8				0	0	0	0	0	0	7	7	7	
9				0	0	0	0	0	0	6	8	8	
10				0	0	0	0	0	0	7	7	8	
11	W Ci 7	Ci 3	Ci 1	1	7	4	3	1	0	7	8	8	
12	Ci 4	Ci 5	Ci 6	2	4	0	5	6	0	6	8	7	
13				<1	0	0	0	0	0	7	7	8	
14	Ci 1		Ci 2	<1	1	0	0	2	0	8	7	8	
15	Ci 1	Ci 2	Ci 1	2	1	0	2	1	0	7	7	7	
16	Ci 4	Ci 10	NW Ci 8	1	4	6	10	8	3	7	7	7	
17	Ci <1	Ci 4	Ci 5	2	<1	0	4	5	0	7	7	8	
18				1	0	0	0	0	0	6	7	7	
19	Ci 1	Ci 2	W Ci 5	2	1	0	2	5	7	7	7	8	
20	WSW Ci 4 ; Cs 3	W Ci 5 ; Cs 3	W Ci 5 ; Cs 2	6	7	8	8	7	5	6	8	8	
21	WSW Ci 4	Ci 1	W Ci 3	4	4	5	1	3	1	6	7	8	
22	Ci 2			4	2	2	0	0	0	6	8	8	
23	Ci <1			3	<1	0	0	0	0	7	7	8	
24	W Ci 5	W Ci 5	W Ci 3	2	5	4	5	3	4	7	7	7	
25	W Ci 2	Ci 1	Ci <1	5	2	1	1	<1	0	6	7	7	
26				1	0	1	0	0	0	4	7	7	
27		Ci <1		<1	0	0	<1	0	0	6	7	7	
28	W Ci 4	WSW Ci 8	WSW Ci 7	<1	4	6	8	7	6	7	7	8	
29	Ci 1	Ci 2	WSW Ci 1	3	1	1	2	1	0	7	8	7	
30				0	0	0	0	0	1	5	7	7	
31	SW Ci 8	SW Ci 5 ; Ac 1	Ci 1	<1	8	4	6	1	0	7	7	7	
Mean cloud amount.				1·4	1·9	1·6	2·3	2·1	1·0				

MARCH.

1				<1	0	0	0	0	0	6	7	8	
2				<1	0	0	0	0	0	7	8	7	
3				1	0	0	0	0	0	7	7	7	
4				0	0	0	0	0	0	6	8	7	
5			WNW Ci 5	<1	0	0	0	5	0	7	7	8	
6				<1	0	0	0	0	0	7	7	7	
7	Ci 2	Ci 3	Ci 3	2	2	4	3	3	0	7	7	8	
8	Ci <1			3	<1	3	0	0	0	7	7	7	
9				0	0	0	0	0	0	6	6	6	
10				0	0	0	0	0	0	6	7	6	
11				1	0	0	0	0	0	7	7	8	
12				0	0	0	0	0	0	6	8	7	
13				0	0	0	0	0	0	6	7	7	
14				0	0	0	0	0	0	7	7	7	
15				<1	0	0	0	0	0	6	6	6	
16	SW Ac 5		Ci 1	1	5	2	0	1	0	6	7	7	
17		Ci 4	Ci 5	5	0	0	4	5	0	6	7	8	
18	Ci 1			2	1	0	0	0	0	7	8	8	
19				0	0	0	0	0	0	7	7	8	
20	Sc 1	Ci <1	Ci 2	<1	1	2	<1	2	0	7	7	8	
21	Ci 4 ; NW Sc <1	W Ci 2	W Ci 6	2	4	5	2	6	4	7	7	7	
22	W Ci 6	Ci 2	W Ci 8	4	6	2	2	8	9	7	7	7	
23	Ci 1	Ci 1; Ac 1	Cs 5 ; W Cc 3 ; Cu <1.	8	1	6	2	8	10	7	8	7	⊖ early *n.*
24	Ci 3 ; Ac 1	Ci 1	Ac 1	8	4	2	1	1	<1	6	7	7	
25	W Ac 6	Ci 1	SW Ci 6	9	6	2	1	6	4	7	7	7	
26	SW Ac 2			8	2	1	0	0	3	6	7	7	
27	W Cs 6	W Ci 5 ; Cs 1	Ci 3	4	6	9	4	3	6	6	7	7	
28	SW Ci 4 ; Ac 2	Ci 3 ; Cs 2 ; W Ac 2	Cs 4 ; W Ac 1	5	6	5	7	5	10	7	7	8	
29	W Sc 4	Ac 1 ; As 8	W Ci 3 ; Ac 2 ; W Sc 3.	9	4	5	9	8	7	6	7	7	
30	SW Sc 7	Ci 1 ; SW Ac 2 ; Cu 4.	W Ci 2 ; SW Ac 1 ; Cu 2.	5	7	5	7	5	10	7	7	7	↘ early *n.*
31	W Sc 10	W Cc 3 ; As 3 ; Ac 3	As 6 ; Ac 1 ; W Ns 3.	9	10	9	9	10	3	6	7	8	
Mean cloud amount.				2·8	2·1	2·0	1·6	2·5	2·1				

FEBRUARY.

Day.	Cloud Forms, amounts and directions.			Cloud Amount (All Forms).						Visibility.			Remarks on the weather of the day.
	8½ h.	12½ h.	16½ h.	6 h.	8½h.	10h.	12½h.	16½h	22h.	8½h.	12½h.	16½h.	
1				0	0	0	0	0	0	7	6	7	
2	Cl 10	Ci 1	Ci 1	1	10	6	1	1	3	6	7	8	
3	Ci 1	W Ci 6	Ci 4	1	1	0	6	4	2	6	6	7	
4	W Ci 3	Cu <1	Cu <1	4	3	1	<1	<1	0	7	8	8	
5	Sc 1		Ci <1 ; Cu <1	1	1	<1	0	<1	0	6	8	8	
6	Ci <1	Cu <1	Ci <1 ; Cu <1	<1	<1	<1	<1	<1	0	7	7	8	
7	Cu <1	SW Ac 1; Cu 1	Cu 1	1	<1	<1	2	1	0	7	7	8	
8	Cu <1	Ci 2 ; Cu <1	Ci 4	1	<1	1	2	4	0	8	8	8	
9	WNW Ac 1 ; W Sc 4	Ac 1 ; W Cu 2	W Ac 2 ; Cu 1	5	5	4	3	3	0	8	8	8	
10	Cu <1	WNW Sc 1	Cu <1	1	<1	<1	1	<1	0	8	8	8	
11	SSW Cu 4	Ns 10	SW Ac 4 ; Cu 1	3	4	10	10	5	2	8	6	8	r late *a*.
12	NNW Cu 4	Cu 1		8	4	6	1	0	0	7	8	8	
13	Cu 1	Cu <1		2	1	1	<1	0	0	8	8	8	
14				0	0	0	0	0	0	7	8	8	
15				0	0	0	0	0	0	7	7	7	
16				<1	0	0	0	0	0	6	7	8	
17		Cu <1	Cu <1	<1	0	0	<1	<1	0	7	7	8	
18	Cu <1	Ci 1	Ci 2	<1	<1	<1	1	2	0	7	8	8	
19		Ci <1	N Ci 4	<1	0	0	<1	4	0	6	7	8	
20		Cu 1		0	0	<1	1	0	0	8	8	8	
21	Cu <1	Cu <1	Cu <1	<1	<1	<1	<1	<1	0	8	8	8	
22	Cu 1	Cu 1	Cu <1	<1	1	2	1	<1	0	7	8	8	
23	Ci 4	Ci 2	Ci 9	1	4	2	2	9	0	7	8	8	
24	Ci 3	Ci 7 ; Cs 2	Ci 7 ; Cs 2	3	3	4	9	9	10	6	7	7	
25	Cu <1	Ci 3		3	<1	1	3	0	0	7	8	8	
26	Cu <1	Ac 1 ; Cu 1	Cu <1	6	<1	5	2	<1	0	7	7	8	
27	NW Sc 3	Cu <1	Ci 1	8	8	3	<1	1	0	7	8	8	r° early *a*.
28				1	0	0	0	0	0	6	8	8	
Mean cloud amount.				1·8	1·6	1·6	1·6	1·5	0·6				

APRIL.

1	W Sc 7 ; Ns 2	As 2 ; W Sc 4 ; Cu 2	Cc 1 ; W Ac 2 ; Cu 1	4	9	10	8	4	1	7	8	8	d° early *a*.
2	SW Sc 8	W Cu 1	Ac 1	8	8	9	1	1	1	5	8	6	
3	W Ac 3	Cu <1	Ci <1	9	3	1	<1	<1	4	6	7	7	
4	Ci 2	W Ci 1	W Ci 3	7	2	1	1	3	1	7	8	8	
5	Sc <1			3	<1	<1	0	0	0	7	8	8	
6			W Ac 1	<1	0	0	0	1	0	7	7	6	
7				0	0	0	0	0	0	6	7	7	
8	Sc 1	Ci 1 ; W Ac 1	NW Ac 2	2	1	3	2	2	0	7	7	7	
9	SW St 1			1	1	0	0	0	1	7	7	8	
10	Cu 1	Cu 1	Cu 1	0	1	1	1	1	0	7	8	7	
11				0	0	0	0	0	0	7	7	7	
12				0	0	0	0	0	0	7	8	7	
13				<1	0	0	0	0	0	6	7	7	
14		SW St 1		0	0	0	1	0	2	7	7	7	
15	Ci 2	Ci 2 ; SW St 2	WSW Sc 6	2	2	4	4	6	2	7	7	8	
16	SW Ac 7 ; Sc 2	S Cc 5 ; Ac 1	Ci 1 ; SW Ac 2	3	9	8	6	3	4	7	7	7	↘ d° late *n*.
17	Ci 2 ; SSE Sc 4	Ci 3	Ac 2	10	6	2	3	2	8	7	7	7	r° late *n*.
18	As 4 ; W Sc 5	SE Ac 5	As 3 ; SE Ac 4	10	9	8	5	7	10	7	7	7	⊖ late *n*.
19	S Ci 7 ; Cu 1	Ci 3 ; Cu 1	NNE Ac 1 ; Cs 4	10	8	6	4	5	5	8	7	6	
20	Ci 3 ; Cs 5	W Ci 6 ; Cs 1 ; Cu 1	Ci 1 ; Cu 1	8	8	6	8	2	4	6	6	6	
21	S Sc 1			6	1	0	0	0	5	6	6	7	
22	Ac 1		Cu 1	4	1	0	0	1	3	7	7	7	
23	Ac 1	Ac <1		4	1	1	<1	0	4	7	7	8	
24	Cu 1		Cu <1	3	1	<1	0	<1	0	8	8	8	
25	Cu 1	NW Cu 2	Cu <1	3	1	1	2	<1	0	7	7	7	
26	NW Sc 6			2	6	1	0	0	0	6	7	7	
27				0	0	0	0	0	0	6	7	7	
28				<1	0	0	0	0	0	7	7	8	
29				0	0	0	0	0	0	7	7	7	
30				0	0	0	0	0	0	7	7	8	
Mean cloud amount.				3·3	2·6	2·1	1·5	1·3	1·8				

MAY.

Day.	Cloud Forms, amounts and directions.			Cloud Amount (All Forms).						Visibility.			Remarks on the weather of the day.
	8½ h.	12½ h.	16½ h.	6h.	8½h.	10h.	12½h.	16½h.	22h.	8½h.	12½h.	16½h.	
1	NW Sc 7	Cu <1	Cu 1	2	7	6	<1	1	2	8	8	8	
2	NW Sc 7		NW Cu 2	3	7	2	0	2	5	7	7	8	
3		Cu <1		0	0	0	<1	0	0	7	8	7	
4	NE Sc 1		Cu <1	1	1	<1	0	<1	0	7	7	7	
5				0	0	0	0	0	0	7	8	8	
6				0	0	0	0	0	3	8	8	8	
7	W Cu 2		W Ci 2 ; NW St 1	4	2	2	0	3	1	8	8	8	
8	Sc 1 ; SW Cu 2		Ci <1	2	3	1	0	<1	1	8	8	8	
9	NW Cu 5	Ci <1 ; Cu 1	Ci 4 ; Cs 5 ; Cu <1	3	5	3	1	9	1	8	8	8	
10	NW Cu 6		Cu <1	2	6	1	0	<1	1	7	8	7	
11	NE Cu 6	Ac <1 ; Cu <1	Cu <1	5	6	<1	<1	<1	0	6	7	7	
12	SE Cu 1	Cu <1	Cu <1	5	1	<1	<1	<1	0	6	7	7	
13	SW Ac 2	Ac 1	SW Ac 2	1	2	1	1	2	1	7	7	7	
14				4	0	0	0	0	<1	7	7	7	
15	Ac <1	Ci <1		2	<1	<1	<1	0	3	6	7	7	
16	NNW Cu 2	SW Ci 6	SW Ci 4	4	2	<1	6	4	<1	6	7	7	
17	NW Cu 6	Ac 1		1	6	2	1	0	1	6	7	7	
18	Cu 2	Cu 2	S Cu 2.	2	2	2	2	2	5	7	7	7	
19	SW Sc 1	Ac 1 ; SW Cu 1	W Cu 8	1	1	1	2	8	2	7	7	7	d° late *n*.
20	SSW Cu 3	Cu 1	W Cu 5	2	3	3	1	5	1	7	7	7	d° early *n*.
21	Cu 1	WNW Cu 2	Cu 1	1	1	1	2	1	2	7	7	7	
22	SW Cu 1	Cu 1	SW Cu 3	2	1	<1	1	3	4	7	7	7	
23	W Cu 2	Ci <1 ; Ac 1	Cu 1	1	2	1	1	1	<1	7	7	7	
24	Ns 9	Cu <1	Cu 1	5	9	1	<1	1	<1	8	7	7	d° early *n*.
25	Ci 1 ; Cu 1	Ci <1 ; W St <1 ; Cu <1	Cu 2	4	2	2	<1	2	8	7	7	7	
26	Ci <1 ; Cu 1	Cu 1	Cu 1	6	1	2	1	1	5	7	7	7	
27	N Cu 2	Ci 2	Ac 1	4	2	1	2	1	1	7	7	7	
28	Sc 10	Cs 7 ; Ac 1 ; Cu 1	Cu 1	10	10	7	9	1	0	7	7	7	
29	W Cu 2 ; W St 1	W Cu 5	Ci 1 ; W Cu 2	6	3	5	5	3	1	7	7	7	
30	Cs 8 ; Cu 2	Cs 5 ; W Cu 5	Cs 8 ; Cu 2	10	10	10	10	10	2	7	7	7	
31	Cu 1	Cs 5 ; Cu 1	Ci 1 ; W Cu 4	5	1	2	6	5	2	7	7	7	
Mean cloud amount.				3·2	3·1	1·8	1·6	2·1	1·7				

JUNE.

Day.	Cloud Forms, amounts and directions.			Cloud Amount (All Forms).						Visibility.			Remarks on the weather of the day.
	8½h.	12½ h.	16½ h.	6 h.	8½h.	10h.	12½h.	16½h.	22h.	8½h.	12½h	16½h	
1	WSW Cu 4	SW Cu 2	WSW Cu 5	3	4	4	2	5	2	7	7	7	
2	SW Cu 3	SW Cu 4	Sc 1; SW Cu 4	5	3	4	4	4	2	7	7	7	
3	Cu 2	WSW Cu 6	SW Cu 4	4	2	1	6	4	3	7	7	7	
4	W Cu 3	W Cu 2	NNW Cu 5	4	3	5	2	5	3	7	7	7	
5	NW Cu 2	Cu 1	NW Cu 4	1	2	2	1	4	3	7	7	7	
6	NW Cu 3	NW Cu 2	WNW Cu 5.	3	3	3	2	5	1	8	8	8	
7	W Cu 3	Cs < 1; SW Cu 3	W Cu 4	3	3	4	3	4	2	8	8	8	
8	Ci 2; Cu 1	Cs 2; SW Cu 1	Ci 1; SW Cu 2	5	3	5	3	3	<1	7	8	8	d° early *a*.
9	Ci 1; SW Cu 2	Cs 1; Cu 1	Ci < 1; Cu 1	5	3	3	2	1	1	8	8	8	
10	Ci 1 <; SW Cu 2	Cu 1	Ci < 1; Cu 1	4	2	2	1	1	3	8	8	8	
11	WSW Cu 2	Cs < 1; Cu 1	Cs 4; Cb 2	3	2	1	1	6	3	8	8	8	T ≷ late *n*.
12	As 4; Cb 1; Ns 5	Cs 1; NAs 2; Cu 1; Ns 4	As 5; Cu 2; Cb 1	10	10	10	8	8	6	8	8	7	≷ *r*, early *a* : T late *p*.
13	ESE Cu 2; Sc 1	Cs 1; SE Cu 5	As 3; SE Cu 5	5	3	1	6	8	7	8	8	7	≷ r° early *a*.
14	Ci < 1; As < 1; S Cu 6	Ci < 1; Cu 1; Cb 1	As 4; S Sc 2; S Ns 3.	7	6	8	2	9	7	7	8	7	≷ *r* early *a*.
15	Cs 1; SW Cu 5	Ci < 1; Cu 1	Ac 1; SW Sc 2	7	6	6	1	3	3	7	8	8	*r* early *a*.
16	Ac 2; Ns 7	As 6; W Ns 4	As 3; W Ns 7	6	9	8	10	10	10	7	7	7	*r*, *a* : ≷ *r* early *n*.
17	Ns 10	Ns 10	As 4; W Sc 4; Cu 2	10	10	7	10	10	7	6	5	8	≷ *q*, *r*, T, *a*.
18	Cc 1; As 3; W Ns 3; Cb 1.	As 4; W Ns 6	Ns 10	10	8	9	10	10	10	7	6	3	*r*, ≷, *r*, *a* : *r*, *p* : *r*, *n*.
19	Ns 10	As 3; Ns 7	As 3; Cb 1; W Ns 6.	10	10	10	10	10	10	7	7	7	*r*, *a* : *r*, *p* : *r* late *n*.
20	Ns 10	Ns 10	Ns 10	10	10	10	10	10	10	4	6	7	*r*, *a* : *r*, *p*. : *r* early *n*.
21	Ns 10	Ns 10	Ns 10	10	10	10	10	10	10	6	3	7	*r*, *a*, *p* and *n*.
22	Ns 10	Ns 10	Ns 10	10	10	10	10	10	10	5	6	6	*r*, ≷ r°, *a* : *r*, *p* : d,° *n*.
23	As 4; W Ns 6	As 3; W Ns 7	As 1; Ns 9	10	10	10	10	10	10	6	6	6	*r*, *p*.
24	As 4; SW Ns 4	Ns 10	As 2; Ns 8	10	8	10	10	10	10	7	4	7	*r*, *a*, *p* and early *n*.
25	As 4; W Ns 6	As 4; Cu 2; W Ns 4	As 6; Ns 4	10	10	10	10	10	8	6	7	6	*r*, *a* : r° early *n*.
26	As 5; SW Ns 5	Ns 10	Ns 10	10	10	9	10	10	9	6	6	6	*r*, *a* and *p*.
27	As 4; W Cu 3; W Ns 1.	As 2; W Ns 8	As 6; W Ns 6	10	8	10	10	9	10	6	6	6	*r*, early *a* and *n*.
28	As 2; SW Ns 8	As 5; SW Ns 5	As 6; W Ns 4	10	10	10	10	10	10	6	6	6	*r*, *a* : *r*, *q*, *p* : *r*, *n*.
29	As 3; SW Ns 7	As 4; SW Ns 4; SW St 2.	As 2; SW Ns 8	10	10	10	10	10	10	5	6	6	*r*, *a* : *r*, *q*, late *n*.
30	Sc 3; W Ns 3	As 2; SW Sc 4; Ns 1	As 1; SW Sc 5; SW Ns 2; SW St. 1.	10	6	5	7	9	3	6	6	6	*r* early *a* : *r*, *q* late *p* : *r*, *n*.
Mean cloud amount.				7·2	6·5	6·6	6·4	7·3	6·1				

JULY.

Day.	Cloud Forms, amounts and directions.			Cloud Amount (All Forms.)						Visibility.			Remarks on the weather of the day.
	8½ h.	12½ h.	16½ h.	6 h.	6½h.	10h.	12½h.	16½h.	22h.	8½h.	12½h.	16½h.	
1	Sc 4; WSW Ns 6.	As 2; SW Ns 6; Cu 2.	Ac 2; As 3; SW Sc 4.	10	10	10	10	9	8	5	6	6	r, rq. a: r, p.
2	As 2; W Ns 8.	As 3; W Ns 7.	As 2; Ns 4; W Sc 3.	6	10	8	10	9	4	6	6	6	r, a; and p.
3	Sc 1; WSW Cu 2.	As 7; Ns 1; SW Sc 2.	As 1; Ns 4; W Sc 5.	10	3	3	10	10	6	6	7	6	r, a: and p.
4	As 5; Cu 2; SW Ns 3.	As 7; W Ns 3.	As 3; SW Ns 7	10	10	10	10	10	3	7	7	6	r° a: p: and n.
5	As 1; SW Ns 4; SW Sc 5.	Ns 10.	As 2; Ns 8	6	10	7	10	10	8	6	6	6	r° late a: r, p: r early n.
6	As 3; W Ns 5; W St 2.	As 3; SW Ns 7.	As 3; W Ns 7	8	10	10	10	10	3	7	7	6	r a: ≤ late n.
7	As 2; Ns 8.	As 2; Ns 8.	Ns 10.	10	10	10	10	10	10	6	7	6	r° a: r, p: r early n.
8	As 1; W Sc 3; W Ns 2; W Cu 2.	Ns 10.	Ns 10.	10	8	8	10	10	10	6	6	6	r°, early a: r, q, p: r, n.
9	Ns 10.	As 4; SW Ns 6.	As 4; SW Ns 6.	10	10	10	10	10	10	6	6	6	r, a: p and n.
10	Ns 10	Ns 10.	Ns 10.	10	10	10	10	10	10	4	6	6	r, a, p and n.
11	As 3; SW Ns 7.	Ns 10.	Ns 10.	10	10	10	10	10	10	7		4	r, a, p and n.
12	Ns 10	Ns 10.	Ns 10.	10	10	10	10	10	10	6	6	6	r, a: r, q, r, p: r, n.
13	Ns 10	Ns 10.	Ns 10.	10	10	10	10	10	10	6	6	5	r, a: p and n.
14	Ns 10	As 2; W Ns 8.	As 1; SW Ns 9.	10	10	10	10	10	10	6	6	6	r, a: r, q, r, p: r early n.
15	As 3; SW Ns 5; Cu 1.	Ci 1; Ns 2; SW Sc 3.	As 2; SW Ns 4; Sc 3.	10	9	5	6	9	10	6	7	7	r°, a: r, p: r° n.
16	W Sc 6; Ns 3;	As 2; W Ns 6; Cu 2.	As 2; W Sc 4; W Ns 2.	6	9	10	10	8	10	6	7	7	r early a: r°, p: r, n.
17	As 4; SW; Sc 3; Cu 1.	As 3; W Ns 2; W Sc 3.	As 3; W Ns 7.	6	8	4	8	10	10	7	7	6	r°, a, r, n.
18	As 2; W Ns 2; Cu 1.	As 3; W Sc 3; W Ns 1.	W Sc 4; Ns 3.	10	5	8	7	7	10	7	7	6	r early a: r° p.
19	As 5; W Ns 3; W Sc 2.	As 2; W Ns 6.	Ns 10	10	10	8	8	10	10	6	7	5	r, a: p and n.
20	As 2; W Sc 4; W Ns 2.	As 2 W Ns 8	Ns 10	10	8	10	10	10	7	7	6	6	r q, r, a: r, p and early n.
21	As 4; W Ns 6.	As 4; W Sc 4; Ns 2	As 6; W Ns 4	10	10	10	10	10	10	6	6	7	r, late p and n.
22	Ns 10.	As 3; W Ns 7.	Ns 10.	10	10	10	10	10	10	6	6	6	r, a: p and n.
23	Ns 10.	As 2; W Ns 8.	Ns 10.	10	10	10	10	10	10	6	6	6	r, a: p and n.
24	Ns 10.	Ns 10.	Ns 10.	10	10	10	10	10	10	6	6	6	r, a: r late p and n.
25	Ns 10.	Ns 10.	Ns 10.	10	10	10	10	10	10	6	6	6	r q, a: p, and n.
26	Ns 10.	Ns 10.	As 2; W Ns 8	10	10	10	10	10	10	6	6	7	r a: r, p; r°, n.
27	As 4; SW Ns 5.	As 4; SW Ns 6.	As 3; WSW Ns 7	9	9	9	10	10	3	6	6	7	r, a: r, q, r, p: r, n.
28	Ns 10.	As 4; W Ns 6.	As 2; W Ns 6	9	10	10	10	8	10	4	6	7	r, a, p and early n.
29	Ns 10.	As 2; SW Ns 6; SW Sc 2.	As 3; Ns 2; SW Sc 4.	10	10	10	10	9	7	6	7	7	r, a: p and n.
30	As 3; Sc 3; W Ns 4.	As 4; SW Ns 4; Sc 2.	As 2; W Ns 8	10	10	8	10	10	6	6	6	6	r, a: r° p. and n.
31	Ns 10	As 7; Sc 3.	As 3; W Ns 3; Sc 4	10	10	10	10	10	10	6	6	6	r°, a, p: and n.
Mean cloud amount.				9·4	9·3	9·0	9·6	9·6	8·5				

AUGUST.

Day.	Cloud Forms amounts and directions.			Cloud Amount (All Forms).						Visibility.			Remarks on the weather of the day.
	8½ h.	12½ h.	16½ h.	6 h.	8½h.	10h.	12½h	16½h.	22h.	8½h.	12½h.	16½h.	
1	As 4; W Ns 6.	As 3; Ns 2; SW Sc 4.	As 2; W Ns 5; Sc 3.	10	10	10	9	10	10	6	7	6	r, *a* : r°, *p*.
2	As 3; W Ns 7.	Ns 10.	As 4; Sc 2; SW Ns 4.	10	10	10	10	10	8	6	6	7	r, *a*.
3	As 4; SW Ns 4; Sc 2.	As 3; Ac 1; SW Ns 6.	As 3; SW Ns 7.	10	10	9	10	10	10	6	6	6	r°, *n*.
4	As 7; SW Ns 3.	As 8; SW Ns 2.	As 6; SW Ns 4.	10	10	10	10	10	8	6	6	6	r°, *a*.
5	As 6; SW Ns 4.	As 5; SW Ns 2; SW Sc 2.	As 7; SW Sc 1; Ns 2.	9	10	10	9	10	10	7	7	7	r° late *a*.
6	As 2; SW Ns 8.	As 4; SW Ns 6.	As 2; W Ns 8.	10	10	10	10	10	8	6	6	7	r, *a* : r° early *p*.
7	As 2; WSW Sc 3; Cu 2; Ns 1.	As 6; W Ns 2; W Sc 2.	As 6; SW Sc 2; Ns 1.	10	8	10	10	9	6	7	7	7	r° *a*, *p* and early *n*.
8	As 5; SW Sc 3; Ns 2.	Ns 10.	As 6; Ns 1; SW Sc 3.	10	10	10	10	10	10	7	6	7	r, *a*.
9	As 2; Ns 2; SW Sc 4.	As 6; W Sc 4.	As 3; Ns 3; SW Sc 4.	10	8	9	10	10	10	7	7	7	r°; *a* : r, *p*.
10	As 6; SW Sc 4.	As 2; WSW Sc 7.	As 3; W Ns 4; Sc 3.	5	10	10	9	10	10	6	7	7	r° late *n*.
11	Ns 10.	As 5; Ns 2; W Sc 3.	As 4; W Ns 4; Sc 2.	10	10	9	10	10	9	6	7	7	r, *a* and *p*.
12	As 7; W Sc 3.	As 4; W Ns 6.	As 2; SW Ns 6; Sc 2.	10	10	9	10	10	3	7	7	7	r, *a*° *p* and early *n*.
13	Ci 1; Sc 1; SW St 2.	As 2; W Sc 4; Cu 1.	As 3; W Sc 4; Ns 1; Cu 1.	8	4	5	7	9	10	7	7	7	r°, *a* : r late *p* : r, *n*.
14	As 2; W Sc 4; W Ns 3.	As 2; W Sc 4; W Cu 3.	As 3; W Sc 3; Cu 1; Ns 1.	10	9	8	9	8	9	7	8	8	r° early *a* : r°, late *p*.
15	As 6; W Sc 2.	As 3; W Sc 4; Cu 2.	Ac 2; As 1; W Sc 3; Cu 1; Ns 1.	10	8	10	9	8	10	8	7	7	r° late *p* and *n*.
16	Ac 2; Cu 1; WNW Sc 4.	As 2; Sc 2; W Cu 3.	As 2; Cu 2; W Cb 4.	7	7	7	7	8	7	7	7	7	r early *p*.
17	WNW Sc 4; Cb 2; Cu 2.	As 5; Cu 2.	As 1; SW Cu 3.	10	8	3	7	4	9	8	7	8	
18	As 4; S Ns 4; Cu 2.	Ac 6; Cu 3.	Ac 1; W Cu 2; Sc 1.	8	10	10	9	4	4	7	8	8	o, r, c, *a*.
19	SW Ns 10.	Ac 5; As 2; Cu 2.	Ac 1; As 2; W Cu 2.	10	10	10	9	5	7	7	8	8	r late *a*.
20	As 1; WNW Sc 4; W Ns 2; Cu 2.	As 6; W Cu 4.	W Sc 6; St 2.	8	9	10	10	8	6	7	7	7	r° late *a* : r°, *n*.
21	As 4; W Sc 3; Ns 2; Cu 1.	As 5; Cu 2; W Sc 2.	Ac 2; W Cu 5; Sc 2.	10	10	9	9	9	4	7	7	7	d° late *a*.
22	As 2; Ns 2; Cu 2; SW Sc 4.	Ac 4; WSW Cu 6.	Ac 1; SW Cu 3.	10	10	8	7	4	10	7	7	7	d° late *a* : r°, *n*.
23	SW Ac 3; Cu 4.	Cu 2; Cb 2; W Sc 1.	As 3; W Sc 4; Cu 2; Ns 1.	6	7	9	5	10	8	7	7	7	d° early *a* and early *p*.
24	Ns 9; Cb 1.	As 4; SW Cu 2; Sc 4.	As 3; W Ns 3; Cb 2; W Sc 2.	3	10	9	10	10	3	7	7	7	r, *a* : r°, *p*.
25	Sc 4; WSW Cu 3.	Ac 2; W Sc 5; Cb 2.	Ci 2; W Sc 3; Cb 1.	10	7	10	9	6	8	7	7	7	r° early *p*.
26	As 1; W Cu 3.	Ac 4; Cu 2.	As 3; Sc 4; W Ns 2.	7	4	6	6	9	10	7	7	7	r°, *a* and *p*.
27	Ac 2; Sc 4; W Cu 2.	As 2; W Sc 3; Cb 1.	W Sc 5; Ns 2; Cb 2.	8	8	8	6	9	8	7	7	7	r early *a* : r° early *n*.
28	As 7; W Sc 3.	As 3; W Sc 4; Ns 2; Cb 1.	Ci 1; W Sc 4; Cb 3.	9	10	10	10	8	4	8	7	7	r°, late *a* : r early *p*.
29	Ns 10.	As 4; SW Sc 4; Ns 2.	As 2; W Sc 6.	10	10	10	10	8	10	5	7	7	r, *a* and *n*.
30	Ac 1; WSW Cu 3; Sc 2.	W Ac 3; As 2; Cu 2.	WSW Cu 3; Sc 1.	8	6	7	7	4	8	7	7	7	r° early *a* and early *n*.
31	Ac 1; W Ns 6; Cu 2.	Ac 2; As 4; Sc 2; W Cb 2.	As 3; Sc 1; SW Cu 2.	10	9	8	10	6	2	7	7	7	r, *a* : r early *p*.
Mean cloud amount.				8·9	8·8	8·8	8·8	8·3	7·7				

SEPTEMBER.

Day.	Cloud Forms, amounts and directions.			Cloud Amount (All Forms)						Visibility.			Remarks on the weather of the day.
	8½ h.	12½ h.	16½ h.	6 h.	8½h.	10h.	12½h	16½h.	22h.	8½h.	12½h.	16½h.	
1	Ac 1; SW Sc 3; Cb 1; St. 1.	Ac 1; As 1; Sc 1; W Cu 3.	Ns 8 Cb 2.	10	6	6	6	10	3	7	7	8	r, *a*, *p* and late *n*.
2	Cu 2: W Sc 6.	Cu 2.	As 2; Ac 3; Sc 1; W Cu 3.	6	8	10	2	9	8	7	7	7	r late *a*: r° late *n*.
3	Ci 1; W Sc 4; Cu 3.	As 2; SW Sc 4; Cu 2.	As 2; W sc 5; Cu 2.	7	8	8	8	9	6	7	7	7	d° late *a*.
4	E Ac 2; Sc 2; WNW Cu 4.	Ci 1; Ac 2; As 1; W Cu 4.	As 1; Ac 1; Sc 1; W Cu 5.	9	8	7	8	8	2	7	8	8	
5	As 4; Sc 1; W Cu 3.	As 3; W Cu 3.	As 6; W Sc 2; Cu 2.	8	8	7	6	10	2	7	8	8	
6	Ci 1; Ac 1; Cu 3; NW Cb. 4.	Ac 2; W Sc 3; W Cu 4.	Ac 1; W Sc 2; W Cu 5.	6	9	7	9	8	4	8	8	8	r late *a*: r° late *n*.
7	As 2; Sc 2; W Cu 4.	As 7; Sc 1; W Cu 2.	As 3; Cb 2; W Ns 5.	9	8	9	10	10	10	8	8	7	r° late *a*: r late *p*.; rq early *n*.
8	As 4; W Ns 6.	As 3; Cb 2; W Ns 5.	As 1; Cb 2; W Ns 7.	10	10	10	10	10	10	6	8	7	q, r, *a*: r, *p* and *n*.
9	Ci <1; SW Cb 1; Cu 3.	SW Sc 4; Cu 2; Cb. 2.	Sc 2; Cb 2; W NW Ns. 4.	10	4	6	8	8	2	7	7	7	q, r, *a*: r, *p* and early *n*.
10	Cu 2; Cb. 2; S Sc 4.	Ns 10.	NS 10.	10	8	4	10	10	4	7	5	6	r, a, *p* and *n*.
11	Ns 10.	Ns 10.	As 2; Cb 2; Sw Sc 6.	10	10	10	10	10	7	4	6	7	r, *a*.
12	As 6; Ac 2; Cu 1.	As 7; Cu 1; W Sc 2.	Ac 1; W Sc 4; Cu 2.	8	9	8	10	7	8	7	7	7	r° early *n*.
13	As 2; Cu 1; W Sc 5.	W Ac 4; W Sc 4.	Ci 1; As 4; Cb 2.	9	8	7	8	7	5	7	7	7	
14	Ac 1; Cb 2; W Sc 4.	As 8; Cb 2.	As 3; Cu 2; W Ns 3.	10	7	7	10	8	7	7	8	7	r, a: d late *p* and late *n*.
15	Ci 3; W Cu 3; W Sc 1.	Ci 1; Sc 1; W Cu 3.	As 2; Cb 1; W Cu 2.	7	7	7	5	5	4	8	8	8	r late *n*: r°, *p*.
16	W Sc 4; Cu 2; Ns 2.	Ac 2; Cu 3; W Cb 4.	Ac 1; Cb 2; W Cu 5.	8	8	10	9	8	10	7	8	8	r, *a*, and *n*.
17	As 2; Sc 3; Cb 1; W Ns 4.	Cb 2; W Sc 6.	As 2; Cb 2; SW Sc 4.	10	10	10	8	8	5	7	8	8	r, *a*.
18	As 5; W Ns 5.	Ci 2; Ac 2; Sc 1; N Cu 2.	Ci 1; Sc 2; NW Cu 3.	9	10	10	7	6	9	7	7	7	r late *a*.
19	Ac 2; W Sc 3; Cu 2; Ns 1.	As 5; W Sc 1; Cu 3.	As 6; Sc 1; W Cu 2.	8	8	10	9	9	10	7	8	8	
20	As 1; Ac 1; Sc 1; NE Cu 4.	Ci 2; NW Cu 3.	As 3; Cb 2; NW Ns 5.	10	7	9	5	10	10	7	8	8	T, r, ◝*p*: r, ◜ late n
21	Cb. 2; Ns 8.	As 3; Cb 3; NW Sc 4.	As 3; Cb 3; NW Sc 4.	10	10	10	10	10	10	4	8	8	r, ◜, r, *a*.
22	Cb 2; Ns 8.	As 4; Cb 2; W Sc 4.	As 3; Cb. 3; NW Sc 4.	10	10	10	10	10	10	5	8	8	r, T. r late *a*: r late *n*.
23	Cb 2; Ns. 8.	Ci 2; As 4; Cb. 2.	As 2; Sc 2; Cb 2; SW Ns 4.	10	10	10	8	10	10	5	8	8	r, ◜, r, *a*.
24	Ci 1; WSW Ac 2; Ob 1; N Sc 2.	As 5; Cb 2; N Sc 3.	As 2; Cb 3; N Sc 5.	6	6	8	10	10	10	8	8	8	T, r late *p*: r, *n*.
25	Cc 2; As 2; E Ac 2; Cu 1.	Ac 2; W Sc 4.	As 2; Cu 2; Ns 2; NW Cb 3.	7	7	7	6	10	10	8	8	8	T, r late *p*: ◝ r,° *n*.
26	Ci 1; Ac 1; Cu 1.	Ci 2; NE Ac 4; Cb 2.	As 1; Cb 3; NW Ns 6.	10	3	3	8	10	10	8	8	8	r° early *a*: ◜, r late *p*: r, *n*.
27	Ci 4; Ac 2.	Cs 2; SE Ac 6; Cu 1.	As 1; Cb 3; SW Ns. 5.	10	5	6	9	9	10	8	8	8	◜°, r late *p* and early *n*.
28	Ac 2; Cb 2; SW Sc 4.	Ci 1; Ac 1; Sc 2; SW Cu 3.	Ci 1; As 1; Cu 2.	10	8	8	7	4	7	8	8	8	◝, *n*.
29	N Ci 4; Cb 2.	As 2; NE Ac 4; Cu 2.	Ci 1; As 4; Ac 2; NE Cb 3.	6	6	8	8	10	10	8	8	8	◜, r early *n*.
30	BSE Ac 6.	Ci 1; NE Ac 5; Cu 1.	As 2; Cb 1.	6	6	5	7	3	5	8	8	8	◜° late *p* and early *n*.
Mean cloud amount.				8·6	7·8	7·9	8·0	8·5	7·3				

OCTOBER.

1	Ci 1; Cs 2; As 2.	N Ci 4; Cb 1.	N Cs 2; Ci 2; Ac 1; Cb 1.	7	5	5	5	6	3	8	8	8	
2	Ci 2; As 3.	Cs 2; As 1; Cu 1.	Ci 2; As 4; E Cb 3.	7	5	4	4	9	10	8	8	8	◜; r late *p* and early *n*.
3	Cs 1; Ac 1; Cb 1.	Ci 1; NNE Ac 3; Cu 1; Cb 1.	As 2; Cb 3.	7	3	3	6	5	10	8	8	8	◜, r late *p* and early *n*.
4	Cs 1; As 6; Sc 2; Cb. 1.	Ci 1; Ac 2; Cb 2; NE Sc 3.	As 3; Cb 3; N Sc 4.	10	10	8	8	10	10	8	8	8	r° early *a*: ◜, r, *p* and *n*.
5	Cs 1; E Ci 3; Cb 1.	Ci 1; Cs 2; Cb 3.	Ci 1; Cs 2; Cb 2; NW Sc 3.	6	5	6	6	8	1	8	8	8	
6	Ci 1; Ac 1; SW Sc 5	Ci 1; Cb 2.	Ci 1; Cb 2.	10	7	6	3	3	0	8	8	8	
7	Ci 1; SSE Ac 6; Cu 1.	NE Cs 3; Cb 1.	Ci 1; Cs 1; SW Ac 3; Cb 1.	7	8	5	4	6	3	8	8	7	
8	WSW Ac 3.	Cs 1.	Cs 1.	4	3	1	1	1	2	7	8	7	◝ *n*.
9	Cs 1; Cu 1; S Sc 2.	Cs 1; Cu < 1.	Cb 1.	5	4	2	1	1	1	7	8	8	◝ late *n*.
10	Cb 1; W Sc 2.	Ci < 1; Cb 1.	NW Sc 2; Cb < 1.	4	3	2	1	2	1	8	8	8	
11	Ci 1; NNE St. 2.	N Sc 2.	Sc <1.	2	3	3	2	<1	1	8	8	8	
12	Sc 2.	Cs 1.		2	2	1	1	0	0	7	7	8	
13	Ci 3; Cs 1.			8	4	3	0	0	0	8	8	8	
14	Cu 1.	WNW Sc 1.	Cb 1.	3	1	1	1	1	0	8	8	8	
15	W Sc 2.	Sc 1; W Cu 2.	Cs 1; Cu 2.	4	2	2	3	3	0	8	8	8	
16	Ac 1; NW Cu 3.	Cs 3; N Ac 1; Cu 2.	Cs 4; Ac 1; Cu 1.	1	4	5	6	6	0	8	8	8	
17	Ci 1.	Cu 1.	Cu 1.	2	1	1	1	1	1	8	8	8	
18	E Cu 1.	Cu < 1.	Cu 1.	4	1	<1	<1	1	3	8	8	8	
19	S Ac 4; Cu 3.	Ci < 1.	Cu 1.	8	7	2	<1	1	9	8	8	8	
20	Cs 2; NW Ac 5; Sc 1.	NW Ac 3.	Cu 1.	9	8	5	3	1	3	8	8	8	
21				4	0	0	0	0	0	8	8	8	
22				0	0	0	0	0	0	8	8	8	
23				0	0	0	0	0	0	8	8	8	
24			Cb 1.	1	0	0	0	1	0	8	8	8	
25		Cu < 1.	Cu 1.	1	0	0	<1	1	1	8	8	8	◝ late *n*.
26		Cu 1.	Cu 1.	2	0	0	1	1	1	8	8	8	◝ late *n*.
27	Ci < 1; Ac 2.	Ac 1; Cu 1.	S Ac 2; Cu 1.	1	2	8	2	3	6	7	8	8	◝ late *n*.
28	Cb 2; E Cu 6.	Cb 3; Cu 1.	Cu 1.	8	8	7	4	1	5	7	8	8	◝ late *n*.
29		Cb 1.	Cb 1.	1	0	0	1	1	1	8	8	8	◝ late *n*.
30	Ac < 1.	Cu 1.	Ci <1; Cu 1	1	<1	0	1	1	1	8	8	8	◝ late *n*.
31	Ci 1; Ac 1.	Cu 1.	Cu 1.	6	2	0	1	1	0	8	8	8	
Mean cloud amount.				4·4	3·2	2·6	2·1	2·4	2·4				

NOVEMBER.

Day.	Cloud Forms, amounts and directions.			Cloud Amount (All Forms).						Visibility.			Remarks on the weather of the day.
	8½ h.	12½ h.	16½ h.	6 h.	8½h.	10h.	12½h.	16½h.	22h.	8½h.	12½h.	16½h.	
1	NW Ci 2 ; Ac 2.	Ci 2 ; Cu<1	Ci 1 ; Cb 1	2	4	2	2	2	4	8	8	8	
2	S Ac 2	Ci 1 ; Ac 1	Ci 2 ; Cu 1	2	2	2	2	3	4	8	8	8	
3	SW Ci 7	Ci 5 ; As 3 ; Cu<1	Ci 2 ; ENE Ac 3 ; Cu 1.	4	7	8	8	6	2	8	8	8	
4	ENE Ci 8	Ci 2 ; As 6	Ac 2 ; As 8	5	8	6	8	10	5	8	8	8	
5	Ci 2	Ci 5	WNW Ci 5 ; Cs 2	7	2	5	5	7	0	8	8	8	
6	NE Ci 5	Ci 4	Ci 1	5	5	4	4	1	3	8	8	8	
7	Ci 1	Ci 1	Ci 2	0	1	3	1	2	0	8	8	8	
8	Ci 3 ; Cs 1	Ci 4	Ci 3	2	4	3	4	3	0	8	8	8	
9	Ci 2 ; Cs 1	Ci 3 ; Cs 1	SW Ci 5 ; Cs 2	5	3	4	4	7	0	8	8	8	
10			Ci 1.	1	0	<1	0	1	0	8	8	8	
11				1	0	0	0	0	0	8	7	8	
12	W Ci 3	NNW Ci 2	Ci 2.	2	3	1	2	2	0	8	8	8	
13	Ci 2	Ci 1	Ci 2	2	2	1	1	2	0	8	8	8	
14	Ci 2	Ci 2	Ci 1.	4	2	1	2	1	0	8	8	8	
15	Ci 1	SW Ci 4	Ci 3	6	1	3	4	3	3	8	8	8	
16	S Ci 3 ; Cc 2	S Ci 4 ; Cs 2	Ci 3	2	5	6	6	3	0	8	8	8	
17	Ac 1		Ac 1	4	1	0	0	1	0	8	8	8	
18	Ci 1	Ci 1.	Ac 1	0	1	2	1	1	0	8	8	8	
19	Ci 1	Ci 2	Ci 1	1	1	2	2	1	0	8	8	8	
20	Ci <1 ; Ac 2	Ci 1 ; Cu <1	Ci 1	3	2	1	1	1	2	8	8	8	
21	Ac 2	SW Ci 2	Ci 2 ; Cs 1	6	2	1	2	3	5	8	8	8	
22	Ci 4 ; Ac 2	Ci 3	Ci 3	7	6	7	3	3	3	8	8	8	
23				1	0	0	0	0	0	8	8	8	
24				1	0	0	0	0	0	8	8	8	
25	S Ci 7	Ci 4	Ci 2	6	7	6	4	2	0	8	8	8	
26	SW Ci 4 ; Ac 2	W Ci 2	NW Ci 3	3	6	4	2	3	0	8	8	8	
27	Ci 1	Ci <1	Ci 2	3	1	<1	<1	2	0	8	8	8	
28	SW Ci 4 ; Cs 2	SW Ci 3 ; Cs 2	SW Ci 4 ; Cs 3	4	6	5	5	7	0	8	8	8	
29	SW Ci 5 ; Cs 2	S Ci 5 ; Cs 2	S Ci 5	4	7	8	7	5	0	7	8	8	
30		Ci 1.	Ci 1	<1	0	0	1	1	0	8	8	8	
Mean cloud amoun				3·1	3·0	2·8	2·7	2·8	1·0				

DECEMBER.

1	Ci 1	Ci 1	Ci 1	<1	1	1	1	1	0	8	8	8	
2				0	0	0	0	0	0	8	8	8	
3				0	0	0	0	0	0	8	8	8	
4			Ac <1	0	0	0	0	<1	0	8	8	8	
5				0	0	0	0	0	0	8	8	8	
6				0	0	0	0	0	0	8	8	8	
7				0	0	0	0	0	0	8	8	8	
8	W Ci 5 ; Cs 2	SW Ci 7	WSW Ci 6	8	7	7	7	6	0	8	7	8	
9			Ci 1	0	0	0	0	1	0	8	8	8	
10	Ci <1	Ci 1	W Ac 2	1	<1	1	1	2	4	8	7	8	
11	WSW Ac 3	Ac 8	Cs 2 ; Ac 7	1	3	2	8	9	7	8	8	8	
12	Ci 2 ; SW Ac 6	Ci 1 ; Cu 1	Ci 2	3	8	3	2	2	1	8	7	8	
13	W Ci 3 ; Ac 1	SW Ci 4 ; As 3	W Ci 5 ; S Sc 2	3	4	5	7	7	2	6	8	8	
14	SW Ci 5 ; Ac 2	W Ci 6 ; S Sc 2	WSW Ci 5 ; S Ac 2	5	7	8	8	7	6	8	8	8	
15	Ci 2 ; SE Ac 2 ; SW Sc 4.	Ci 1 ; Ac 1 ; Cu 1	Ci 2 ; Cu 1	7	8	2	3	2	7	7	8	8	
16	Ci 2 ; Cu 1	Cs 4 ; Ac 2 ; Cu 1	SW Ci 5 ; Cs 3	8	3	5	7	8	8	8	7	7	
17	SW Ci 5 ; S Ac 4	SW Ci 7 ; Ac 1	Ci 8 ; Ac 1	8	9	6	8	9	2	8	8	8	
18	Ci 5	S Ci 6	SW Ci 6	1	5	3	6	6	4	8	8	8	
19	W Ci 8 ;	WSW Ci 6 ; WSW Sc 3.	W Ci 8	3	8	6	9	8	5	5	6	7	
20	As 10	As 9	Ci 2 ; As 5	9	10	10	9	7	0	5	8	8	
21	Ci 2 ; WSW As 3	Ci 2 ; Ac 1 ; W As 4.	Ac <1	4	5	8	7	<1	0	6	8	8	
22	Ci 3 ; SW As 6	SW Ci 3	Ac 1	9	9	7	3	1	0	6	8	8	
23				<1	0	0	0	0	0	7	8	8	
24			Cu 1	<1	0	0	0	1	0	7	7	8	
25	Cu 3	Cu 1	Cu 1	4	3	3	1	1	0	8	8	8	
26	Ac 1	S Ac 5	Cu 1	2	1	3	5	1	0	8	8	8	
27	S Ac 5	Cu 1	Cu 1	7	5	<1	1	1	0	7	7	8	
28				0	0	0	0	0	0	7	8	8	
29				0	0	0	0	0	0	8	8	8	
30		Ac 2	Ac <1	1	0	0	2	<1	0	8	8	8	
31	Ac 1 ; Sc 2	Ac 1 ; Sc 1 ; Cu 1	Cu 1	5	3	2	3	1	0	8	8	8	
Mean cloud. amount.				2·9	3·2	2·6	3·2	2·6	1·5				

DURATION OF BRIGHT SUNSHINE,* 1937.

Month.	Hours. (Local Apparent Time.)												Bright Sunshine.	
	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	15—16	16—17	17—18	Average per day.	Greatest number of hours in a day.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hrs.	hrs.
January	0·09	0·89	0·96	0·96	0·98	0·98	0·97	0·97	0·97	0·97	0·94	0·13	9·8	10·4
February	0·15	0·85	0·96	0·95	0·96	0·96	0·96	0·96	0·97	0·99	0·95	0·22	9·9	10·9
March	0·02	0·80	0·93	0·93	0·95	0·93	0·93	0·91	0·93	0·94	0·87	0·10	9·2	10·5
April	0·20	0·85	0·90	0·92	0·92	0·97	0·96	0·98	0·97	0·97	0·97	0·50	10·1	11·3
May	0·32	0·86	0·92	0·96	0·96	0·99	1·00	0·99	0·99	0·97	0·96	0·53	10·5	11·6
June	0·20	0·47	0·57	0·57	0·57	0·51	0·51	0·53	0·53	0·48	0·39	0·22	5·5	11·6
July	0·00	0·08	0·14	0·27	0·12	0·11	0·09	0·09	0·14	0·11	0·08	0·03	1·3	4·9
August	0·00	0·13	0·29	0·34	0·26	0·23	0·32	0·33	0·28	0·34	0·33	0·08	2·9	7·3
September	0·00	0·18	0·45	0·51	0·59	0·50	0·66	0·65	0·57	0·41	0·20	0·03	4·7	8·5
October	0·18	0·78	0·88	0·95	0·98	0·98	0·98	0·95	0·95	0·92	0·87	0·21	9·6	10·9
November	0·23	0·92	0·99	0·98	0·96	0·96	0·96	0·98	0·94	0·94	0·88	0·69	10·4	10·7
December	0·08	0·74	0·84	0·88	0·93	0·90	0·90	0·92	0·91	0·87	0·79	0·07	8·8	10·4
Mean	0·12	0·63	0·74	0·77	0·77	0·75	0·77	0·77	0·76	0·74	0·69	0·23	7·7	..

* From Campbell-Stokes Sunshine Recorder.

MAGNETIC TABLES.

(ALIBAG OBSERVATORY.)

Diurnal variation of magnetic elements.

The following tables give the diurnal variation of declination (D), the horizontal component of the force (H), the easterly component (Y), the vertical component (Z), the inclination (I) and the total force (F) for each month based on the hourly tabulations for the 5 international quiet days and the 5 international disturbed days. Owing to the very small value of D the variation tables of H and the northerly component of the force (X) are practically the same. No separate table for $\triangle X$ has consequently been given. The days are reckoned from 4 h. 51 m. of the local mean time which corresponds to the Greenwich civil time 0 h.

The variations in X, Y, I and F were computed from the variations in D, H and Z by means of the formulæ:

$$\begin{aligned}
\triangle X &= 1{\cdot}000\ \triangle H + 0{\cdot}070\ \triangle D \\
\triangle Y &= -0{\cdot}006\ \triangle H + 10{\cdot}956\ \triangle D \\
\triangle I &= 0{\cdot}074\ \triangle Z - 0{\cdot}035\ \triangle H \\
\triangle F &= 0{\cdot}903\ \triangle H + 0{\cdot}429\ \triangle Z
\end{aligned}$$

A *plus* sign indicates an hourly value greater than the mean for the day.

Mean results are also given for groups of four months, as indicated by the Roman numerals at the head of the columns:—I. January, February, November, December: II. March, April, September, October; III. May, June, July, August.

All diurnal inequalities have been corrected for aperiodic change by the formula $\frac{N(12-n)}{24}$ where "N" denotes the excess of the value at the second midnight of the representative day over the value at the first midnight, and "n" denotes any hour of the day reckoned from 0. h (first midnight) to 24h. The actual non-cyclic corrections applied, namely, $a_{24} - a_0$, in the different months of the year have been given under the respective columns of the tables for $\triangle D$, $\triangle H$ and $\triangle Z$.

The "allowance for the use of means", which is given by $u_p = m_p + \left(m_p - \frac{m_{p+1} + m_{p-1}}{2}\right)$, where u_p is the true ordinate and m_{p-1}, m_p and m_{p+1}, the successive mean ordinates, is very small and less than 1γ for H and V and 0·1 minute of arc for D. Although small, the corrections have been used in the following variation tables so as to determine the last significant figure.

DIURNAL VARIATION OF D, 1937.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	−0·4	−0·2	−0·1	+0·1	+0 5	+0·5	+1·1	+0·6	0·0	0·0	0·0	−0·4	−0·3	0·0	+0·7	+0·1
1	−0·5	−0·2	0·0	+0·3	+1·8	+1·5	+2·3	+1·5	+0·7	+0·3	0·0	−0·4	−0·3	+0·3	+1·8	+0·6
2	−0·6	+0·3	+0·5	+1·1	**+2·6**	**+2·7**	**+3·5**	**+2·8**	+2·2	+1·1	0·0	−0·2	−0·1	+1·2	**+2·9**	+1·3
3	+0·3	+0·5	+1·2	**+1·2**	+2·3	+2·5	+3·3	+2·8	**+2·9**	**+1·2**	+0·5	+0 9	+0·6	**+1·6**	+2·7	**+1·6**
4	**+1·7**	+0·5	**+1·2**	+1·1	+1·3	+0·9	+1·6	+1·5	+2·1	+0·6	**+0·8**	**+1·5**	**+1·1**	+1·2	+1·3	+1·2
5	+1·6	−0·1	+0·6	+1·1	−0·5	+0·5	−0·1	−0·1	+1·0	−0·2	+0·1	+1·0	+0·7	+0·6	0·0	+0·4
6	0·0	−0·8	−0·3	+0·5	−1·9	−0·8	−1·7	−1·6	−0·4	−1·0	−0·8	+0·2	−0·3	−0·3	−1·5	−0·7
7	**−0·8**	**−1·3**	−1·2	−1.0	**−2·7**	−1·7	−2·8	−2·9	−1·9	**−1·3**	**−0·8**	**−1·0**	**−1·0**	−1·3	−2·5	−1·6
8	−0·5	−0·9	**−1·6**	**−1·9**	−2·7	**−2·7**	**−3·3**	**−3·2**	**−2·7**	−0·9	−0·1	−0 8	−0·6	**−1·8**	**−3·0**	**−1·8**
9	−0·3	−0·2	−1·2	−1·5	−1·7	−2·3	−2·8	−2·6	−2·3	−0·2	+0·3	−0·5	−0·2	−1·3	−2·4	−1·3
10	−0·2	+0·7	−0·2	−0·7	−0·5	−1·5	−1·8	−1·4	−1·2	+0·3	+0·2	−0·3	+0·1	−0·4	−1·3	−0·5
11	+0·3	**+1·3**	+0·6	+0·1	+0·2	−0·6	−0·7	−0·1	−0·5	+0·4	−0·1	+0·1	+0·4	+0·2	−0·3	+0 1
12	+0·4	+1·0	+0·4	+0·3	+0·6	+0·3	+0·2	+0·8	0·0	−0·1	−0·4	−0·1	+0·2	+0·1	+0·5	+0·3
13	−0·3	−0·2	−0·2	0·0	+0·6	+0·5	+0·5	+0·9	−0·1	−0·5	−0·4	−0·1	−0·2	−0·2	+0·6	+0·1
14	0·0	−0·2	−0·1	−0·3	0·0	0·0	−0·1	+0·2	−0·1	−0·1	+0·1	+0·3	0·0	−0·2	+0·1	0·0
15	+0·1	0·0	+0·1	−0·4	−0·1	−0·3	−0·4	−0 1	+0 1	+0·1	+0·1	+0·3	+0·1	−0·1	−0·3	− 0·1
16	−0·1	−0·2	+0·1	−0·4	−0·2	−0·2	−0·3	−0·1	−0·1	−0 1	−0·1	+0·1	- 0·1	−0·1	−0·2	−0·1
17	−0·1	−0·2	0·0	−0·2	−0·2	−0·1	−0·2	0·0	−0·2	−0·2	0·0	+0·1	−0·1	−0·2	−0·1	−0·1
18	0·0	−0·1	0·0	−0·1	0·0	0·0	0·0	0 0	0·0	0·0	+0·1	+0·1	0·0	0·0	0·0	0·0
19	0·0	+0·1	+0·1	+0·1	0·0	+0·1	+0·1	+0·1	+0·1	+0·1	+0·2	+0·1	+0.1	+0·1	+0·1	+0·1
20	0·0	+0·1	+0·1	+0·1	0·0	+0·2	+0·2	+0·2	+0·2	+0·2	+0 2	0·0	+0·1	+0·2	+0·1	+0 1
21	−0·1	+0·2	+0·1	+0·3	+0·2	+0·1	+0·3	+0 2	+0 2	+0·2	+0·2	−0 1	0·0	+0·2	+0·2	+0·1
22	−0·2	0·0	−0·1	+0·2	+0·2	+0·2	+0·5	+0·3	0·0	+0·2	0·0	−0·2	−0·1	+0·1	+0·3	+0·1
23	−0·3	−0·2	−0·1	+0·1	+0·2	+0·2	+0·5	+0·3	−0·1	+0·1	0·0	−0·3	−0·2	0·0	+0·3	+0·1
Non-cyclic change (24h—0 h.)	+0·07	−0·06	+0·21	+0·06	+0·07	+0·06	+0·26	+0·20	+0·12	+0·21	+0·01	+0·26				

DIURNAL VARIATION OF H, 1937.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−10	−13	−15	−14	−20	−18	−19	−14	−14	−14	−14	−4	−10	−14	−17	−14
1	−9	−13	−13	−12	−18	−16	−16	−15	−15	−11	−11	−3	−9	−13	−16	−13
2	−7	−12	−10	−8	−10	−4	−8	−14	−15	−11	−5	−2	−7	−11	−9	−9
3	−3	−4	−2	+2	+5	+15	+5	−5	−4	+1	+6	+1	0	−1	+5	+1
4	+6	+14	+14	+21	+23	+34	+24	+12	+17	+18	+21	+5	+11	+17	+23	+17
5	+29	+29	+31	+40	+40	+46	+41	+26	+37	+30	+34	+15	+25	+35	+38	+32
6	+33	+39	+40	**+45**	+51	**+53**	**+51**	+39	**+48**	+37	**+41**	+22	+34	**+43**	+48	+42
7	**+35**	**+44**	**+42**	+42	**+51**	+49	+49	**+46**	+44	**+37**	+39	**+23**	**+35**	+42	**+49**	**+42**
8	+27	+42	+35	+35	+43	+39	+39	+42	+35	+ 0	+30	+17	+29	+34	+41	+35
9	+16	+29	+24	+23	+32	+25	+25	+30	+22	+18	+18	+7	+17	+22	+28	+23
10	+8	+16	+11	+12	+19	+10	+11	+17	+11	+9	+9	+2	+9	+11	+14	+11
11	+2	+5	+2	+1	+6	−4	−1	+5	+3	−1	0	+1	+2	+1	+1	+2
12	−2	−4	−2	−7	−6	−13	−7	−5	−2	−4	−7	−1	−3	−4	−8	−5
13	−5	−7	−3	−10	−13	−18	−11	−9	−7	−3	−9	−2	−6	−6	−13	−8
14	−4	−11	−6	−12	−15	−19	−15	−12	−10	−7	−11	−5	−8	−9	−15	−11
15	−9	−13	−10	−14	−17	−20	−17	−15	−15	−13	−14	−7	−11	−13	−17	−14
16	−12	−14	−14	−16	−19	−21	−18	−17	−18	**−16**	−18	−11	−14	−16	**−19**	−16
17	−13	−17	−17	−18	−21	−19	−19	**−18**	−17	−16	**−19**	**−12**	**−15**	−17	−19	**−17**
18	**−14**	−18	−17	**−20**	−22	−21	−18	−17	−16	−15	−17	−11	−15	−17	−19	−17
19	−13	**−19**	−18	−20	−22	−21	−19	−16	−16	−14	−16	−9	−14	−17	−19	−17
20	−13	−19	−20	−19	−23	−21	**−20**	−16	−17	−13	−16	−8	−14	−17	**−20**	−17
21	−12	−18	**−20**	−18	**−23**	**−21**	−18	−15	**−18**	−14	−15	−8	−13	**−17**	−19	−17
22	−11	−18	−19	−17	−21	−20	−19	−15	−16	−14	−15	−6	−12	−17	−19	−16
23	−11	−16	−17	−17	−21	−18	−19	−14	−14	−14	−14	−5	−11	−15	−18	−15
Non-cyclic change 24h—0 h.)	+6·1	+7·3	+9·9	−2·0	+8·5	+6·5	+7·4	+11·4	+9·5	+9·3	+2·3	+9·8				

DIURNAL VARIATION OF Y, 1937.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
0	−4	−2	−1	+1	+6	+5	+12	+6	0	0	0	−5	−3	0	+7	+1
1	−6	−2	0	+3	+20	+16	+26	+17	+8	+3	0	−5	−3	+4	+20	+7
2	−6	+4	+6	+12	**+29**	**+30**	+38	**+31**	+25	+12	0	−2	−1	+13	**+32**	+15
3	+4	+6	+13	**+14**	+25	+27	+56	+31	**+32**	**+13**	+6	**+10**	+6	**+18**	+30	**+18**
4	**+18**	+5	**+13**	+12	+14	+9	+17	+16	+23	+6	**+9**	**+17**	**+12**	+14	+14	+13
5	+17	−1	+6	+11	−5	+6	−1	−1	+11	−2	+1	+11	+7	+6	0	+4
6	0	−9	−4	+5	−21	−9	−19	−18	−5	−11	−9	+2	−4	−4	−17	−8
7	**−9**	**−14**	−13	−11	**−30**	−20	−31	−32	−21	**−14**	**−9**	**−11**	**−11**	−15	−28	−18
8	−5	−10	**−18**	**−21**	−37	**−30**	**−36**	−36	**−30**	−10	−1	−9	−6	**−20**	**−33**	**−20**
9	−4	−2	−13	−17	−19	−25	−31	−29	−25	−2	+3	−5	−2	−14	−26	−14
10	−2	+8	−2	−8	−6	−17	−20	−15	−13	+3	+2	−3	+1	−5	−14	−6
11	+4	**+14**	+7	+1	+3	−6	−7	−1	−5	+5	−1	+1	+4	+2	−3	+1
12	+4	+11	+4	+4	+7	+3	+2	+9	0	−1	−4	−1	+2	+2	+5	+3
13	−3	−2	−2	0	+7	+6	+5	+10	−1	−6	−5	−1	−3	−2	+7	+1
14	0	−2	−1	−4	0	+1	0	+2	−1	−1	+1	+3	0	−2	+1	0
15	+1	0	+1	−5	−2	−3	−4	−1	+1	+1	+1	+3	+1	−1	−3	0
16	0	−2	+1	−4	−2	−2	−4	−1	−1	−2	−1	+1	−1	−1	−2	−1
17	−1	−2	0	−3	−2	−1	−2	0	−2	−2	0	+1	−1	−2	−1	−1
18	0	−1	+1	0	0	0	0	0	0	0	+1	+1	0	0	0	0
19	0	+1	+2	+1	0	+1	+2	+1	+1	+2	+2	+1	+1	+1	+1	+1
20	0	+1	+2	+2	0	+2	+2	+2	+2	+2	+3	0	+1	+2	+2	+2
21	−1	+2	+1	+3	+2	+2	+4	+3	+2	+2	+2	−1	0	+2	+3	+2
22	−2	0	−1	+3	+2	+3	+5	+3	0	+2	0	−2	−1	+1	+3	+1
23	−3	−2	−1	+1	+2	+3	+6	+4	−1	+2	0	−4	−2	0	+4	+1

DIURNAL VARIATION OF Z, 1937.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	+5	+5	+4	+5	+14	+11	+9	+7	+11	+6	+2	+4	+4	+7	+10	+7
1	+7	+7	+7	+9	**+20**	+19	**+16**	+15	+19	+11	+3	+7	+6	+11	**+17**	+12
2	+10	+7	**+9**	**+10**	+15	**+20**	+12	**+16**	**+25**	**+11**	+4	+11	+8	**+14**	+16	**+13**
3	**+20**	+3	+9	+4	+2	+15	—2	+4	+13	+2	+5	**+16**	**+11**	+7	+5	+8
4	+19	—6	+3	—1	—16	—3	—19	—10	—6	—7	—2	+11	+6	—3	—12	—3
5	—12	—13	—6	—1	—34	—25	—25	—21	—19	—13	**—9**	—4	—10	—10	—26	—15
6	**—15**	**—19**	—15	—9	**—38**	**—24**	—29	**—31**	—27	**—17**	—8	—11	**—13**	—17	**—33**	**—21**
7	—13	—15	**—17**	**—17**	—31	—33	**—30**	—28	**—29**	—10	+2	**—11**	—9	**—18**	—31	—19
8	—4	—5	—11	—12	—19	—31	25	—17	—22	—1	**+8**	—7	—2	—12	—23	—12
9	+1	+7	—4	—3	—5	—13	—9	—6	—11	+4	+4	—3	+2	—3	—8	—3
10	+5	**+11**	+1	+3	+4	0	+4	+3	—3	+4	**—2**	+1	+4	+1	+3	**+3**
11	+5	+7	0	+4	+7	+9	+12	+11	1	0	**—5**	+3	+3	+1	+10	+4
12	0	—4	—4	—1	+6	+10	+13	+10	—4	—6	—5	—1	—3	—4	+10	+1
13	—6	—10	—6	—5	+1	+7	+7	+3	—3	—4	—1	+1	—4	—5	+4	—1
14	—1	—3	—1	—4	—2	0	—1	—2	+1	+1	+2	+2	0	—1	—1	—1
15	—2	0	+1	—2	+1	+1	0	—1	+2	—1	—2	—2	—1	0	0	0
16	—6	—1	0	—1	+4	+4	+3	+1	+1	—4	—5	—4	—4	—1	+3	—1
17	—5	+1	+1	+1	+6	+6	+6	+3	+3	0	—2	—3	—2	+1	+5	+1
18	—3	+4	+3	+1	+7	+6	+8	+5	+7	+2	0	—2	0	+3	+7	+3
19	—1	+5	+4	+2	+9	+7	+9	+6	+9	+3	+1	—2	+1	+5	+8	+4
20	—1	+5	+5	+3	+10	+6	+10	+7	+9	+3	**+1**	**—3**	+1	+5	+8	+5
21	—1	+5	+5	+3	+12	+5	+10	+7	+9	+5	**+2**	**—3**	+1	+5	+9	+5
22	0	+5	+5	+2	+12	+6	+10	+8	+8	+5	**+2**	—2	+1	+5	+9	+5
23	+1	+5	+6	+2	+15	+7	+11	+9	+9	+6	+4	—1	+2	+6	+10	+6
Non-cyclic change (24h—0 h.)	—3·6	+6·8	—3·0	—1·7	—7·1	+4·2	—4·9	—0·6	—0·7	—5·4	+5·2	+0·7				

DIURNAL VARIATION OF I, 1937.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	+0·7	+0·8	+0·8	+0·9	+1·7	+1·4	+1·4	+1·0	**+1·3**	+1·0	+0·6	+0·4	+0·6	+1·0	+1·4	+1·0
1	+0·8	+0·9	+0·9	**+1·1**	**+2·1**	**+1·9**	**+1·8**	+1·6	+1·9	+1·2	+0·6	+0·6	+0·7	+1·3	**+1·9**	**+1·3**
2	+1·0	+0·9	**+1·1**	+1·1	+1·4	+1·6	+1·2	**+1·7**	**+2·3**	**+1·2**	+0·5	+0·9	+0·8	**+1·4**	+1·5	+1·2
3	**+1·6**	+0·4	+0·7	+0·2	0·0	+0·6	—0·4	+0·5	+1·1	+0·2	+0·2	**+1·2**	**+0·9**	+0·5	+0·2	+0·5
4	+1·2	—0·9	—0·3	—0·8	—2·0	—1·4	—2·2	—1·2	—1·0	—1·1	—0·8	+0·6	0·0	—0·8	—1·7	—0·8
5	—1·6	—2·0	—1·5	—1·5	—3·9	—3·5	—3·3	—2·4	—2·7	—2·1	—1·8	—0·8	—1·5	—1·9	—3·3	—2·3
6	**—2·2**	**—2·8**	—2·5	—2·3	**—4·6**	**—4·4**	**—4·0**	**—3·7**	**—3·7**	**—2·6**	**—2·0**	**—1·6**	**—2·1**	—2·8	**—4·2**	**—3·0**
7	—2·1	—2·6	**—2·8**	**—2·8**	—4·1	—4·1	—3·9	—3·7	—3·7	—2·0	—1·2	—1·6	—1·9	**—2·8**	—3·9	—2·9
8	—1·2	—1·9	—2·0	—2·1	—2·9	—3·7	—3·2	—2·8	—2·9	—1·2	—0·5	—1·1	—1·2	—2·1	—3·1	—2·1
9	—0·6	—0·5	—1·1	—1·0	—1·5	—1·9	—1·6	—1·5	—1·6	—0·3	—0·3	—0·5	—0·5	—1·0	—1·6	—1·0
10	+0·1	+0·3	—0·3	—0·2	—0·4	—0·4	—0·1	—0·3	—0·6	0·0	—0·4	0·0	0·0	—0·3	—0·3	—0·2
11	+0·3	+0·3	—0·1	+0·3	+0·3	+0·7	+0·9	+0·6	—0·2	0·0	—0·4	+0·1	+0·1	0·0	+0·6	+0·2
12	+0·1	—0·4	—0·2	+0·3	+0·6	+1·2	+1·3	+1·0	—0·2	—0·4	—0·2	0·0	—0·1	—0·1	+1·0	+0·3
13	—0·2	—0·5	—0·3	—0·1	+0·5	+1·1	+0·9	+0·5	0·0	—0·2	+0·2	+0·2	—0·1	—0·1	+0·7	+0·2
14	0·0	+0·2	+0·2	+0·1	+0·4	+0·7	+0·4	+0·2	+0·5	+0·4	+0·5	+0·4	+0·3	+0·3	+0·4	+0·3
15	+0·1	+0·5	+0·5	+0·3	+0·7	+0·8	+0·6	+0·4	+0·7	+0·4	+0·4	+0·2	+0·3	+0·5	+0·6	+0·5
16	—0·1	+0·4	+0·5	+0·5	+1·0	+1·0	+0·8	+0·7	+0·7	+0·3	+0·3	+0·1	+0·2	+0·5	+0·9	+0·5
17	+0·1	+0·7	+0·7	+0·6	+1·1	+1·1	+1·2	+0·8	+0·8	+0·5	+0·5	+0·2	+0·4	+0·7	+1·1	+0·7
18	+0·3	+0·9	+0·8	+0·8	+1·3	+1·2	+1·2	+1·0	+1·1	+0·7	+0·6	+0·3	+0·5	+0·9	+1·2	+0·9
19	+0·4	**+1·0**	+0·9	+0·8	+1·5	+1·2	+1·4	+1·1	+1·2	+0·7	+0·6	+0·1	+0·5	+0·9	+1·3	+0·9
20	+0·4	+0·9	+1·0	+0·9	+1·6	+1·1	+1·5	+1·1	+1·3	+0·8	+0·6	+0·1	+0·5	+1·0	+1·3	+0·9
21	+0·3	+1·0	+1·1	+0·8	+1·7	+1·1	+1·4	+1·0	+1·3	+0·8	+0·6	+0·1	+0·5	+1·0	+1·3	+0·9
22	+0·4	+1·0	+1·0	+0·7	+1·6	+1·1	+1·5	+1·1	+1·2	+0·9	+0·6	+0·1	+0·5	+0·9	+1·3	+0·9
23	+0·5	+1·0	+1·1	+0·7	+1·8	+1·1	+1·5	+1·2	+1·2	+0·9	**+0·7**	+0·1	+0·6	+1·0	+1·4	+1·0

DIURNAL VARIATION OF F, 1937.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	—7	—9	—12	—10	—12	—11	—13	—9	—8	—10	—12	—2	—7	—10	—11	—9
1	—5	—9	—9	—7	—8	—6	—8	—7	—5	—6	—9	0	—6	—7	—7	—7
2	—2	—8	—5	—3	—3	+5	—3	—6	—3	—5	—3	+3	—2	—4	—1	—3
3	+6	—3	+2	+4	+6	+20	+3	—3	+2	+2	+8	+7	+5	+3	+6	+5
4	+14	+10	+14	+19	+14	+30	+13	+6	+13	+13	+18	+9	+13	+15	+16	+14
5	+13	+21	+25	+36	+22	+31	+26	+15	+25	+21	+27	+11	+18	+27	+23	+23
6	+23	+27	+30	**+37**	+29	**+33**	**+33**	+22	**+32**	+26	+34	+16	+25	**+31**	+30	+29
7	**+27**	+33	**+31**	+31	**+33**	+31	+31	+29	+27	**+29**	**+37**	**+16**	**+28**	+30	**+31**	**+30**
8	+22	**+35**	+27	+26	+31	+23	+25	**+31**	+22	+27	+31	+12	+25	+25	+27	+26
9	+15	+29	+19	+20	+27	+17	+19	+25	+15	+18	+18	+5	+17	+18	+22	+19
10	+10	+19	+11	+12	+19	+9	+11	+17	+8	+10	+7	+2	+9	+10	+14	+11
11	+4	+7	+2	+2	+9	0	+5	+9	+2	—1	—2	+3	+3	+1	+5	+3
12	—2	—5	—3	—7	—3	—8	—1	0	—3	—6	—8	—1	—4	—5	—3	—4
13	—7	—11	—5	—11	—11	—13	—7	—7	—8	—5	—9	—1	—7	—7	—9	—8
14	—4	—11	—6	—13	—15	—17	—14	—11	—9	—6	—9	—4	—7	—8	—14	—10
15	—9	—12	—9	—14	—14	—18	—15	—14	—12	—12	—13	—7	—10	—12	—15	—13
16	—14	—13	—12	—15	—15	—17	—15	—15	—15	—16	—18	—11	—14	—15	—15	—15
17	—13	—15	—15	—16	—17	—15	—14	—15	—14	—14	—18	—12	—15	—15	—15	—15
18	—14	—15	—14	—17	—17	—16	—13	—13	—11	—12	—15	—11	—14	—14	—15	—14
19	—12	—15	—14	—17	—16	—16	—13	—12	—11	—11	—14	—9	—13	—13	—14	—13
20	—12	—15	—16	—16	—16	—17	—13	—11	—12	—10	—14	—9	—12	—13	—14	—13
21	—12	—14	—16	—15	—16	—17	—12	—11	—12	—11	—13	—9	—12	—13	—14	—13
22	—10	—14	—14	—15	—14	—16	—13	—10	—11	—11	—12	—6	—11	—13	—13	—12
23	—9	—12	—13	—14	—13	—14	—13	—9	—9	—10	—11	—4	—9	—11	—12	—11

DIURNAL VARIATION OF D, 1937.

[INTERNATIONAL DISTURBED DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Group Means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	—0·5	—0·1	—0·3	+1·4	+0·4	+0·5	+1·1	+1·0	+0·4	+0·3	—0·8	—0·7	—0·5	+0·5	+0·7	+0·2
1	—0·6	—0·5	0·0	+1·9	+1·0	+1·7	+2·6	+2·0	+1·3	+0·5	—0·8	—0·7	—0·7	+0·9	+1·8	+0·7
2	—0·7	—0·2	+0·6	**+2·7**	+2·4	+2·4	**+3·3**	**+3·1**	+2·9	+1·6	—0·7	—0·3	—0·5	+1·9	**+2·8**	+1·4
3	+0·5	+0·2	+1·5	+2·6	**+2·7**	**+2·5**	+3·0	+2.7	**+3·3**	**+2·4**	—0·4	+0·3	+0·1	**+2·4**	+2·7	**+1·8**
4	**+1.7**	+0·1	**+1.6**	+1·5	+2·1	+1·8	+1·7	+1·7	+2·2	+1·8	—0·1	+0·8	**+0·6**	+1·8	+1·8	+1·4
5	+1·7	—0·2	+1·1	—0·5	+0·5	+0·7	+0·2	+0·3	+0·5	+0·8	—0·7	—0·3	+0·1	+0·5	+0·4	+0·3
6	+0·2	—0·8	+0·5	—2·3	—1·0	—0·3	—1·2	—0·9	—1·5	—0·5	**—0·9**	**—1·3**	0·7	—0·9	—0·9	—0·8
7	—1·3	**—1·1**	—0·7	**—3·0**	—2·4	—1·5	—2·3	—1·2	—3·1	—1·9	—0·5	—1·3	**—1·0**	—2·2	—1·9	—1·7
8	**—1·4**	—0·7	—1·6	—2·8	**—3·0**	—1·5	**—2·7**	**—1·9**	**—3·4**	**—2·5**	+0·4	—0·8	—0·6	**—2·6**	**—2·3**	**—1·8**
9	—0·6	—0·4	**—1·6**	—2·1	—2·7	—1·3	—2·4	—1·8	—2·7	—1·8	**+0·8**	—0·1	—0·1	—2·1	—2·1	—1·4
10	0·0	+0·3	—0·7	—1·1	—1·9	—1·1	—1·7	—1·4	—1·5	—0·9	+0·7	+0·3	+0·3	—1·1	—1·5	—0·8
11	+0·2	+0·5	—0·2	+0·2	—0·8	—0·6	—1·0	—1·0	—0·5	—0·4	+0·6	**+0·9**	+0·5	—0·2	—0·9	—0·2
12	—0·1	+0·1	0·0	**+0·4**	+0·1	—0·3	—0·2	—0·7	—0·1	—0·3	+0·6	+0·1	+0·2	0·0	—0·3	**0·0**
13	—0·8	—0·4	+0·1	+0·1	+0·7	0·0	+0·1	—0·3	—0·2	—0·2	0·0	0·0	—0·3	0·0	+0·1	—0·1
14	—0·4	—0·1	0·0	—0·5	+0·4	—0·2	—0·2	—0·2	—0·2	—0·1	+0·2	+0·7	+0·1	—0·2	—0·1	—0·1
15	—0·1	0·0	—0·2	—0·8	0·0	—0·6	—0·5	—0·5	—0·2	+0·4	+0·3	+0·4	+0·2	—0·2	—0·4	—0·1
16	0·0	+0·1	—0·3	—0·9	0·0	**—1·7**	—0·5	—0·6	—0·3	—0·1	+0·2	+0·5	+0·2	—0·4	—0·7	—0·3
17	+0·2	+0·4	—0·1	—0·7	—0·1	—0·3	—0·3	—0·4	0·0	—0·3	+0·4	+0·8	+0·5	—0·3	—0·3	0·0
18	+0·3	**+0·6**	0·0	—0·5	—0·1	—0·2	—0·3	—0·1	+0·3	0·0	+0·5	+0·6	+0·5	0·0	—0·2	+0·1
19	+0·3	+0·6	+0·1	0·0	+0·1	—0·1	—0·2	—0·2	+0·6	+0·1	+0·7	+0·4	+0·5	+0·2	—0·1	+0·2
20	+0·4	+0·6	+0·1	+0·7	+0·3	0·0	0·0	—0·1	+0·7	+0·2	+0·5	+0·2	+0·4	+0·4	+0·1	+0.3
21	+0·5	+0·5	+0·2	+1·0	+0·5	—0·1	+0·1	+0·2	+0·6	+0·2	0·0	+0·1	+0·3	+0·5	+0·2	+0·3
22	+0·3	+0·5	+0·1	+1·5	+0·5	—0·1	+0·4	+0·3	+0·7	+0·2	—0·3	—0·2	+0·1	+0·6	+0·3	+0·3
23	+0·1	+0·1	—0·2	+1·4	+0·3	+0·2	+0·6	+0·4	+0·5	+0·3	—0·5	—0·4	—0·2	+0·5	+0·4	+0·2
Non-cyclic change (24h—0h.)	—0·49	+0·28	—0·62	—0·19	—0·08	—0·87	—0·60	—0·66	—0·33	—0·03	—0·60	—0·40				

DIURNAL VARIATION OF H, 1937.

[INTERNATIONAL DISTURBED DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	—11	—1	+1	—38	+1	—9	—2	+10	—15	—1	0	—1	—3	—13	0	—5
1	—7	—2	+3	—34	0	—6	+1	+9	—22	—6	+4	+7	+1	—15	+1	—4
2	—2	+2	+3	**—43**	—1	+2	+4	+17	**—27**	—12	+10	+11	+5	—20	+5	—3
3	+4	+2	+14	—28	+3	+15	+8	+33	—22	—3	+17	+16	+10	—9	+15	+5
4	+16	+13	+36	0	+1	+31	+20	**+49**	—1	+17	+26	+26	+20	+13	+25	+19
5	+32	+33	+51	+23	+12	+38	+34	+42	+23	+21	+40	+40	+36	+29	+31	+32
6	**+45**	+32	**+55**	**+39**	+15	**+47**	+44	+38	+37	+33	**+50**	+52	**+45**	**+41**	**+36**	**+41**
7	+44	**+37**	+47	+37	+19	+41	**+45**	+31	**+42**	+31	+44	**+52**	+44	+39	+34	+39
8	+35	+33	+39	+22	**+22**	+32	+33	+22	+40	**+34**	+36	+43	+37	+34	+27	+33
9	+28	+29	+37	+5	+15	+24	+20	—17	+25	+32	+23	+28	+27	+25	+10	+21
10	+12	+20	+17	+3	+4	+10	+4	—29	+11	+21	+17	+16	+16	+13	—3	+9
11	0	+12	—16	—7	—10	—6	—7	—33	+1	+7	—1	0	+3	—4	+14	—5
12	—5	+3	—39	—17	—12	—20	—16	**—35**	+1	—3	—19	—15	—9	—15	—21	—15
13	—5	—3	—46	—9	—14	**—30**	—23	—29	+2	—16	—24	—27	—15	—17	—24	—19
14	—2	—7	**—51**	—8	—16	—27	—23	—34	+3	—12	—27	—35	—18	—17	**—25**	—20
15	—6	—11	—42	—11	—15	—22	**—25**	—26	+3	**—46**	—31	—29	—19	**—24**	—22	**—22**
16	—16	—25	—32	+4	**—17**	—19	—23	—24	—3	—38	**—39**	—39	—30	—17	—21	**—23**
17	—27	—39	—25	+3	—6	—21	—22	—21	—9	—19	—27	—41	—33	—13	—18	—21
18	—28	**—40**	—17	+22	—2	—23	—18	—13	—14	—14	—25	**—43**	**—34**	—5	—14	—18
19	**—30**	—34	—11	+28	—4	—19	—16	—7	—21	—9	—31	—27	—30	—3	—11	—15
20	—16	—17	—6	+9	—2	—17	—13	+2	—18	—9	—27	—5	—16	—6	—8	—10
21	—25	—19	—12	+6	+3	—9	—14	+4	—15	—7	—10	—13	—17	—7	—4	—9
22	—20	—15	—7	+7	+2	—7	—6	+3	—10	—4	—4	—9	—12	—4	—2	—6
23	—16	—6	+1	—15	+3	—7	—4	+7	—11	+1	—2	—5	—7	—6	0	—5
Non-cyclic change (24h—0h.)	—24·3	—30·7	—39·9	—18·7	—10·2	—27·7	—23·7	—29·4	—31·5	—11·3	—15·7	—16·4				

DIURNAL VARIATION OF Y, 1937.

[INTERNATIONAL DISTURBED DAYS, GREENWICH MEAN TIME.]

	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
0	—5	—2	—4	+15	+4	+6	+12	+11	+5	+4	—8	—8	—6	+5	+8	+2
1	—7	—5	0	+21	+11	+18	+29	+22	+14	+5	—9	—8	—7	+10	+20	+8
2	—7	—3	+7	**+30**	+26	+27	**+37**	**+34**	+32	+17	—8	—3	—5	+22	**+31**	+16
3	+5	+2	+16	+28	**+30**	**+28**	+33	+30	**+36**	**+27**	—5	+3	+1	**+27**	+30	**+19**
4	**+19**	+1	**+18**	+16	+23	+20	+19	+18	+24	+19	—1	+8	**+7**	+19	+20	+15
5	+18	—3	+12	—6	+6	+8	+2	+3	+5	+9	—7	—3	+1	+5	+5	+4
6	+2	—9	+6	—25	—11	—4	—13	—11	—17	—6	**—11**	**—15**	—8	+11	—10	—2
7	—15	**—12**	—8	**—33**	—27	—17	—25	—14	—35	—21	—6	—14	**—12**	—24	—21	—19
8	**—16**	—8	—18	—30	**—33**	—17	**—30**	**—21**	**—38**	**—28**	+5	—9	—7	**—28**	**—26**	**—20**
9	—7	—4	**—18**	—23	—30	—15	—27	—20	—30	—20	**+8**	—1	—1	—23	—23	—16
10	0	+3	—8	—13	—21	—12	—18	—15	—17	—10	+7	+3	+3	—12	—17	—8
11	+3	+5	—2	+2	—8	—7	—11	—11	—5	—4	+7	**+9**	+6	—2	—9	—2
12	—1	+1	0	+5	+1	—3	—3	—7	—1	—3	+6	+1	+2	0	—3	0
13	—9	—4	+2	+1	+7	+1	+1	—4	—2	—2	0	0	**—3**	0	+1	—1
14	—5	—1	0	—5	+5	—2	—2	—2	—3	—1	+2	+8	+1	—2	0	—1
15	—1	+1	—2	—8	0	—6	—6	—6	—3	+4	+4	+5	+2	—2	—4	—1
16	0	+1	—4	—10	+1	**—18**	—5	—6	—4	0	+3	+5	+2	—2	—7	—2
17	+2	+5	—1	—7	—2	—3	—3	—4	0	—3	+5	+9	+5	—3	—3	0
18	+4	**+7**	0	—6	—1	—2	—3	—4	+4	0	+5	+7	+6	0	—2	+1
19	+4	+6	+1	—1	+1	—1	—2	—2	+7	+1	+7	+4	+5	+2	—1	+2
20	+5	+7	+1	+7	+4	+1	0	—1	+8	+2	+5	+2	+5	+5	+1	+3
21	+6	+6	+2	+11	+5	—1	+1	+2	+7	+3	0	+1	+3	+6	+2	+4
22	+3	+5	+1	+16	+5	—1	+4	+4	+8	+3	—3	—2	+1	+7	+3	+4
23	+2	+1	—2	+15	+3	+2	+7	+5	+5	+3	—6	—4	—2	+5	+4	**+3**

DIURNAL VARIATION OF Z, 1937.

[INTERNATIONAL DISTURBED DAYS, GREENWICH MEAN TIME.]

Hours.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Group Means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	+1	+3	+1	+8	+8	+10	+8	+11	+14	+4	−3	0	+1	+7	+9	+6
1	+4	+2	+6	+14	+17	**+19**	**+18**	**+19**	+23	+8	−1	+3	+2	+13	**+18**	+11
2	+7	+6	**+11**	+13	**+21**	+18	+9	+16	**+27**	+11	+1	+6	+5	**+15**	+16	**+12**
3	**+13**	**+7**	+9	−1	+8	+11	−4	+1	+11	+2	+3	**+9**	**+8**	+5	+4	+6
4	+2	+3	−3	−17	−9	+1	−14	−15	−14	−17	−3	0	+1	−13	−9	−7
5	−9	−10	+8	−29	−25	−12	−18	−25	−31	−25	**−10**	−14	−11	−19	−20	−17
6	**−24**	**−13**	−24	**−31**	**−34**	−17	**−19**	**−27**	**−40**	**−31**	−6	**−15**	**−14**	**−31**	**−24**	**−23**
7	−20	−11	**−27**	−22	−28	**−18**	−19	−23	−38	−27	+3	−8	−9	−29	−22	−20
8	−4	−2	−19	−11	−23	−12	−15	−16	−24	−17	**+4**	+2	0	−18	−17	−11
9	+6	+2	−4	+1	−13	−7	−9	−5	−9	−3	+2	+8	+5	−4	−8	−3
10	+12	+4	+6	+12	−4	−4	0	−1	+1	+1	0	+8	+6	+5	−2	+3
11	+9	0	+3	**+19**	+4	−1	+3	0	+5	−1	−1	+5	+3	+7	+1	+4
12	−2	−6	−3	+1	+6	−1	+6	+2	+2	−4	−2	−5	−3	−1	+3	−1
13	−6	−6	−4	−6	+6	−1	+4	+1	−2	0	−1	0	−3	−3	**+3**	−1
14	+2	−1	−1	−7	+1	−4	0	0	+1	+4	+2	+1	+1	−1	−1	0
15	+2	−1	+1	−3	+3	−3	+1	+1	+2	+7	+1	−2	0	+2	0	+1
16	0	−1	+3	0	+5	0	+3	+3	+3	+4	+2	+1	0	+2	+3	+2
17	+1	+1	+7	+4	+6	+3	+5	+5	+6	+9	+3	+1	+1	+6	+5	+4
18	+1	+2	+7	+5	+8	+3	+6	+6	+9	+12	+3	−1	+1	+8	+6	+5
19	0	+3	+6	+10	+9	+3	**+7**	+8	+11	+13	+1	−2	+1	+10	+7	+6
20	+1	+5	+6	+11	+9	+3	+6	+8	+11	+12	−1	0	+1	+10	+6	+6
21	+1	+5	+5	+9	+9	+2	+7	+10	+10	+13	0	0	+2	+9	+7	+6
22	0	+4	+4	+11	+9	+3	+7	+10	+12	+12	0	+1	+1	+10	+7	+6
23	+1	+3	+3	+8	+9	+3	+8	+10	+10	**+13**	+1	+1	+1	+9	+7	+6
Non-cyclic change (24h—0h)	−0·9	−6·3	−2·1	+4·3	−1·3	+10·2	+8·4	+0·1	−8·0	+6·9	+3·5	−8·3				

DIURNAL VARIATION OF I, 1937.

[INTERNATIONAL DISTURBED DAYS, GREENWICH MEAN TIME.]

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	+0·5	+0·2	+0·1	+1·9	+0·6	+1·1	+0·7	+0·4	+1·5	+0·3	−0·2	0·0	+0·1	+0·9	+0·7	+0·6
1	+0·6	+0·3	+0·4	+2·2	+1·3	**+1·6**	**+1·3**	+1·1	+2·5	+0·8	−0·2	+0·1	+0·2	+1·5	**+1·3**	+1·0
2	+0·6	+0·3	+0·8	**+2·4**	**+1·5**	+1·2	+0·6	+0·6	**+2·9**	+1·2	−0·2	+0·1	+0·2	**+1·8**	+1·0	+1·0
3	+0·9	+0·4	+0·2	+0·9	+0·5	+0·4	−0·6	−1·1	+1·6	+0·3	−0·4	+0·1	+0·3	+0·7	−0·2	+0·3
4	−0·5	−0·3	−1·3	−1·3	−0·7	−1·1	−1·8	−2·8	−1·0	−1·9	−1·1	−0·9	−0·7	−1·4	−1·6	−1·2
5	−1·8	−1·9	−2·7	−3·0	−2·3	−2·2	−2·5	**−3·3**	−3·1	−2·5	**−2·1**	−2·4	−2·1	−2·8	−2·6	−2·5
6	**−3·3**	−2·0	**−3·6**	**−3·7**	**−3·0**	**−2·8**	−2·9	−3·3	**−4·3**	**−3·4**	−2·1	**−2·9**	**−2·6**	**−3·7**	**−3·0**	**−3·1**
7	−3·1	**−2·1**	−3·6	−2·9	−2·8	−2·7	**−3·0**	−2·8	−4·3	−3·1	−1·3	−2·4	−2·2	−3·5	−2·8	−2·8
8	−1·5	−1·3	−2·7	−1·6	−2·5	−2·0	−2·3	−2·0	−3·2	−2·5	−1·0	−1·4	−1·3	−2·5	−2·2	−2·0
9	−0·5	−0·9	−1·5	−0·1	−1·5	−1·3	−1·3	+0·2	−1·6	−1·3	−0·7	−0·4	−0·6	−1·1	−1·0	−0·9
10	+0·5	−0·4	−0·1	+0·8	−0·4	−0·7	−0·1	+0·9	−0·3	−0·6	−0·6	0·0	−0·1	−0·1	−0·1	−0·1
11	+0·7	−0·4	+0·9	+1·6	+0·7	+0·1	+0·5	+1·1	+0·4	−0·3	0·0	+0·4	+0·2	+0·7	+0·6	+0·5
12	0·0	−0·5	+1·2	+0·6	+0·9	+0·6	+1·0	**+1·3**	+0·1	−0·2	+0·6	+0·2	+0·1	+0·4	+0·9	+0·5
13	−0·2	−0·4	+1·4	−0·1	+1·0	+1·0	+1·1	+1·1	−0·3	+0·6	+0·9	+0·9	+0·3	+0·4	+1·1	+0·6
14	+0·1	+0·1	**+1·8**	−0·2	+0·7	+0·6	+0·8	+1·2	−0·1	+0·7	+1·1	+1·3	+0·7	+0·5	+0·8	+0·7
15	+0·4	+0·3	+1·6	+0·2	+0·7	+0·6	+1·0	+0·9	0·0	**+2·2**	+1·2	+0·8	+0·7	+1·0	+0·8	+0·8
16	+0·6	+0·8	+1·4	−0·1	+0·9	+0·7	+1·0	+1·0	+0·3	+1·6	**+1·6**	**+1·5**	+1·1	+0·8	+0·9	+0·9
17	+1·0	**+1·5**	+1·4	+0·2	**+0·6**	+1·0	+1·2	+1·1	+0·7	+1·4	+1·2	+1·5	**+1·3**	+0·9	+1·0	**+1·1**
18	+1·0	+1·5	+1·2	−0·4	+0·7	+1·1	+1·0	+1·0	+1·1	+1·4	+1·1	+1·4	+1·3	+0·8	+0·9	+1·0
19	**+1·1**	+1·4	+0·9	−0·2	+0·8	+0·8	+1·1	+0·8	+1·5	+1·3	+1·2	+0·8	+1·1	+0·9	+0·9	+1·0
20	+0·7	+0·9	+0·7	+0·5	+0·7	+0·8	+0·9	+0·5	+1·4	+1·2	+1·0	+0·2	+0·7	+0·9	+0·7	+0·8
21	+1·0	+1·1	+0·9	+0·5	+0·6	+0·4	+1·0	+0·6	+1·2	+1·2	+0·3	+0·5	+0·7	+0·9	+0·7	+0·8
22	+0·7	+0·8	+0·7	+0·6	+0·5	+0·5	+0·7	+0·6	+1·3	+1·0	+0·2	+0·4	+0·5	+0·9	+0·6	+0·7
23	+0·6	+0·5	+0·3	+1·1	+0·5	+0·5	+0·7	+0·4	+1·2	+1·0	+0·2	+0·3	+0·4	+0·9	+0·5	+0·6

DIURNAL VARIATION OF F, 1937.

[INTERNATIONAL DISTURBED DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−9	+1	+1	−31	+5	−4	+2	+14	−7	+1	−1	0	−3	−9	+4	−2
1	−5	−1	+6	−25	+7	+3	+8	+17	−10	−2	+3	+8	+1	−8	+9	+1
2	+1	+4	+7	**−33**	+8	+9	+7	+22	13	−6	+9	+13	+7	−11	+12	+3
3	+9	+5	+17	−25	+6	+19	+6	+31	**−15**	−2	+17	+18	+12	−6	+15	+7
4	+15	+13	+32	−8	−3	+28	+12	**+38**	−7	+8	+22	+24	+19	+6	+19	+15
5	+25	+25	**+40**	+8	0	+30	+23	+27	+7	+8	+32	+30	+28	+16	+20	+21
6	+31	+23	+40	+22	−1	**+35**	+31	+23	+16	+16	**+42**	+40	+34	**+24**	**+22**	**+27**
7	**+31**	+28	+32	+24	+5	+29	**+32**	+18	+21	+17	+41	**+44**	**+36**	+23	+21	+27
8	+30	**+29**	+28	+15	**+10**	+23	+23	+13	**+25**	+23	+35	+39	+33	+23	+17	+25
9	+28	+27	+32	+5	+8	+18	**+14**	−18	+18	**+28**	+21	+29	+26	+21	**+6**	+17
10	+16	+20	+18	+8	+2	+8	+3	−26	+10	+20	+15	+18	+17	+14	−3	+9
11	+4	+11	−13	+2	−7	−6	−5	−29	+3	+6	−2	+2	+4	0	−12	**−3**
12	−6	+1	−37	−15	−8	−18	−12	**−31**	+2	−5	−18	−15	−10	−14	−17	−14
13	−7	−5	−43	−11	−10	**−28**	−19	−26	+1	−14	−22	−24	−15	−17	−21	−17
14	−1	−7	**−46**	−10	**−14**	−26	−21	−31	+3	−9	−23	−31	−15	−16	**−23**	−18
15	−4	−11	−38	−11	−13	−21	**−22**	−23	+3	**−38**	−27	−27	−17	**−21**	−20	−19
16	−14	−24	−27	+3	−13	**−17**	−19	−20	−1	−32	**−35**	−35	−27	−14	−17	**−20**
17	−23	−35	−19	+4	−3	−18	−17	−17	−6	−13	−23	−37	−29	−9	−14	−17
18	−25	**−35**	−11	+22	+1	−19	−14	−9	−9	−7	−21	**−39**	**−30**	−1	−10	−14
19	**−27**	−29	−7	**+30**	0	−15	−11	−3	−14	−3	−27	−25	−27	−2	−7	−12
20	−14	−13	−2	+12	+2	−14	−10	+5	−11	−3	−24	−5	−14	−1	−4	−7
21	−22	−15	−8	+9	+7	+7	−10	+7	−9	−1	−9	−12	−14	−2	−1	**−6**
22	−18	−12	−5	+11	+5	+6	−3	+7	−4	+2	−4	−7	−10	+1	+1	−3
23	−15	−4	+2	−10	+7	+5	0	+11	−6	+6	−2	−4	−6	**−2**	+3	−2

DECLINATION (WESTERLY), 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1†	20·7	20·7	20·7	20·4	20·2	20·9	22·1	22·1	21·5	20·5	19·9	19·7	20·0	20·6	20·5
2	20·7	20·7	20·7	19·4	20·1	20·2	22·0	23·5	24·0	23·6	22·0	20·4	20·0	21·0	20·9
3	20·4	20·5	20·8	20·0	18·7	19·2	20·9	21·7	22·2	22·2	22.1	21·2	21·0	21·5	21·1
4	20·8	20·9	21·2	20·4	18 3	16·7	17·4	19 4	20·3	20·3	20·6	20·3	20·3	21·1	21·1
5	21·6	21·6	21·6	21·0	20·0	20·2	21·6	22·5	23·2	23·6	23·2	22·2	21·4	21·3	21·0
6	21·2	21·3	21·0	19·5	17·3	17·7	19·9	20·9	21·7	22·2	22·1	21·5	21·6	22·1	21·3
7††	21·7	21·6	21·8	21·4	20·5	19·6	20·5	22·5	22·5	21·5	20·8	20·5	20·7	21·6	21·2
8	20·8	22·0	21·8	20·7	19 7	19·1	20·1	21·9	22·1	22·1	21·9	21·3	21·4	21·6	21·1
9††	21·8	22·2	22·2	20·7	18·9	18·9	20·5	22·3	23·5	22·2	21·5	20·5	20·6	20 7	20·7
10††	21·7	21·9	22·7	22·4	21·1	20·5	20·8	22·2	22·5	22·4	22·4	22·0	22·1	22·0	21·0
11	21·2	21·9	21·8	20·7	19·3	18·3	19·4	20·7	21·4	21·4	20·7	20·0	20·2	20·9	20·9
12	21·6	22·1	22·0	21·4	20·5	20·4	21·4	22·8	22·4	22·5	21·9	21·4	21·6	22·1	21·6
13	22·4	22 2	21·9	20·9	18·9	19·1	20·5	21·5	21·3	21·9	21·0	20·9	21·0	21·7	21·1
14	21·7	22·1	22·0	21·2	19·9	19·9	21·0	22·0	22.9	22·4	22·0	22·0	22·0	22·1	21·8
15†	21·8	21·8	21·8	21·2	20·1	19.9	20·5	20·9	20·7	21·3	21·2	20·6	21·2	21·9	21·6
16†	21·8	22·1	22·3	21·5	20·1	20·3	22·4	24·3	24·0	23·0	21·6	20·4	20·2	21·5	21·6
17	21·9	22·1	22·1	21.2	20·0	20·2	21·2	21·9	21·1	20·5	20·7	20·9	21·1	21·7	21·6
18	21·9	22·3	22·7	22·2	20·6	20 9	23·4	25·1	24·7	23·0	21·8	20·7	20·7	21·4	21·3
19	21·8	22·0	22·1	21·5	20·2	20·7	22·5	23·3	23·2	22·5	21·4	20·5	20·6	21·4	21·5
20	21·5	21·5	21·5	20·7	19·1	18·3	19·9	21·7	23·6	23.8	22·6	21·3	20·8	21·4	21·6
21	21·7	22·3	22·3	21·1	19·0	19·3	21·5	22·9	22·9	22·2	21·3	21·3	21·3	21·5	21·1
22	21·2	21·5	21·7	21·3	20·0	19·2	19·7	20·6	21·5	22·5	22·1	21·1	20·3	21·0	21·0
23†·	21·4	21·7	21·9	20·3	18·3	17·9	19·7	21·3	20·9	20·8	21·5	21·3	20.9	21·3	21·0
24	22·0	22·0	21·7	20·7	18·6	18·3	20·8	21·9	21·6	22·7	23·7	22·6	21·7	21·7	21·5
25†	21·9	22·1	22·0	20·6	19·2	19·4	21·0	21·1	21.2	22·1	22·7	22·5	21·9	21·9	21·5
26	21·6	21·9	22·2	21·7	20·7	20·7	20·9	21·7	22·4	22·1	21·3	20·5	20·6	21·5	21·4
27††	22·1	22·3	21·7	20·0	19·2	19·5	21·2	22·3	21·9	22·1	21·6	22·2	22·1	22·7	22·3
28	20·5	21·1	22·0	21·4	19·8	20·6	22·9	23·7	22·4	21·3	20.3	19·9	20·5	21·5	21·3
29	21·1	21·9	21·7	21·0	20·4	21·3	23.1	24·5	23·7	22·3	21·2	20·6	20·9	22·2	21·7
30††	21·5	21·5	20·8	19·0	17·9	19·2	21·6	22·7	21·9	20·3	19·1	19·0	20·2	21·9	21·8
31	22·2	22·2	21·5	20·4	19·5	20·3	22·3	23·9	23·6	22·7	21·3	20·1	20·4	21·9	21·9
Mean . .	21·5	21·7	21·7	20·8	19·5	19.6	21·1	22·3	22·3	22·1	21·5	20·9	21·0	21·6	21·3
Mean† . .	21·5	21·7	21·8	20·9	19·5	19·6	21·2	22·0	21·7	21·5	21·4	20·9	20·8	21·5	21·2
Mean†† . .	21·5	21·7	21·7	20·5	19·3	19·3	20·8	22·3	22 4	21·6	21·0	20·8	21·1	21·8	21·5

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1	21·7	21·8	21·1	20·1	18·2	18·9	21·7	22·9	22·9	22·4	21·0	19·7	19·7	21·1	21·4
2	21·4	21·3	20·7	20·1	19·5	20·1	21·6	23·1	23·1	23·1	22·0	20·9	21·0	21·9	21·8
3††	21·4	21·1	20·7	19·4	18·6	20·2	20·3	20·7	20·9	21·3	20·3	19·9	20·3	20·8	20·6
4	20·7	21·0	20·5	20·0	19·6	20·5	22·1	22·4	21·5	20·7	19·9	20·1	20·7	21·6	21·4
5††	21·0	21·7	21·8	21·0	19·9	19·4	20·2	21·3	21·4	21·1	21·4	21·5	21·7	21·9	21·5
6	21.4	21·7	21·7	21·5	20·7	20·5	21·5	22·1	21·6	21.3	20·6	20·3	21·7	22·7	21·7
7	21·2	22·0	21·4	20·5	20·0	19·9	20·6	21·3	21·2	21·1	21·3	21·8	22·4	22·6	22·2
8†	22·0	22·5	22·3	21·9	20·9	20·8	21·0	21·5	20·9	20·5	20·4	21·0	21·9	22·3	22·0
9††	21·9	22·7	22·8	22·8	22·6	22·1	22·1	21·9	21·9	21·7	21·7	22·3	22·5	22·4	22·0
10	21·9	22·1	22·1	22·0	22·5	23·4	23·3	22·6	21·8	20·6	19·9	19·8	20·9	21·5	21·0
11	21·7	22·2	22·4	22·7	23·0	23·0	23·1	22·9	22·5	22·1	21·3	21·1	21·4	21.9	22·0
12	21.6	21·9	21·4	21·4	21·3	21·6	21·7	21·7	21·1	19·9	19·8	19·9	21·1	22·3	21·8
13	21·3	21·6	21·7	21·8	22.2	22·7	23·4	23·5	22·9	21·7	20·6	20·3	20·6	21·9	21·6
14	21·1	20·9	21·6	22·1	22·7	23·5	24·2	24·1	23·3	22·1	21·0	20·4	21·0	21·7	21·5
15	20·6	21·0	20·7	21·0	22·0	22·8	24·0	24·2	23·1	22·0	21·4	21·1	21·5	22·0	21·7
16	21·6	21·5	21·4	21·3	21·2	21·5	21·7	22·1	21·2	20·9	20·8	20·6	20·8	21·6	21·3
17	21·4	21·5	21·4	21·0	20·7	20·7	21·7	22·7	23·0	22·2	21·6	21·4	21·1	21·7	21·2
18	21·4	21·3	20·9	21·3	21·4	22·0	23·3	24·1	24·4	23·9	22·8	22·1	21·8	21·8	21·7
19††	21·0	2 ·3	21·1	21·9	23·3	24·0	24·9	24.2	22·7	22·0	21·0	20·2	20·4	21·1	21·3
20	22·2	22·5	22·7	22·8	22·9	23·2	23·7	23·4	22·8	22·0	21·4	21·2	21·3	21·8	21·8
21††	21·4	21·3	20·8	20·3	21·2	21·8	22·7	23·5	23·0	22·3	21·0	20·5	21·3	22·3	21·9
22	21·7	21·7	20·9	20·7	20·8	21·2	22·0	23·1	23·5	23·3	20·5	20·2	20·1	20·7	20·8
23†	22·0	22·0	21·3	20·9	21·1	21·5	22·2	22.5	21·9	21·3	20·4	20·1	20·7	22·2	22·3
24†	21·6	21·4	20·7	20·2	20·5	20·9	21·5	22·1	22·2	21·3	20·9	20·5	20·6	21.6	21·9
25	21·8	21·5	20·7	20·1	21·1	22·1	22·7	22·9	22·8	22·0	20·9	20·4	20·9	21·9	22·1
26†	21·9	21·7	20·9	20·5	20·7	21·7	22·8	23·2	23·0	22·2	20·8	19·5	19·6	21·3	21·4
27†	21·6	21·2	21·0	21·7	22·4	23·3	24·2	24·7	24·3	23·5	21·8	20·6	20·2	21·1	21·1
28	21·8	21·3	20·3	19·9	20·8	22·5	24·3	25·3	25·3	24·2	22·3	21·6	21·6	22·0	21·4
Mean . .	21·5	21·6	21·3	21·1	21·1	21·7	22·4	22·9	22·5	21·9	21·0	20·7	21·0	21·8	21·6
Mean† . .	21·8	21·7	21·2	21·0	21·1	21·6	22·3	22·8	22·5	21·7	20·9	20·3	20·6	21·7	21 8
Mean†† . .	21·5	21·8	21·6	21·2	21·2	21·6	22·1	22·4	22·0	21·7	21·1	20·9	21·2	21·7	21·4

† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
20·5	20·7	20·9	20·7	20·7	20·7	20·7	20·7	20·7	20·7	11 12	19·6	7 6	22·3	1†
20·9	21·0	21·1	21·0	20·8	20·5	20·6	20·4	20·5	21·1	4 48	19·7	7 30	24·2	2
20·9	20·8	21·0	20·9	20·8	20·7	20·7	20·7	20·7	20·9	4 10	18·3	7 50	22·3	3
21·1	21·1	21·2	21·1	21.1	21·1	21·1	21·2	21·3	**20·4**	4 54	**16·5**	23 30	21·7	4
20·8	20·9	21·1	21·1	20·9	20·9	20·9	21·1	21·1	21·5	4 30	19·8	8 54	23·7	5
21·1	21·2	21·4	21·4	21·4	21·1	21·2	21·4	21·5	21·0	4 20	17·0	8 50	22·2	6
20·8	20·7	20·2	19·8	20·0	19·8	20·2	19·7	19·7	20·8	19 54	19·3	7 30	23·1	7††
20·8	20.9	21·0	21·1	21·1	21·3	21·1	21·3	21·4	21·2	4 54	18·9	1 10	22·4	8
20·6	20·6	20·6	20·6	20·6	20·7	20·6	20·8	20·7	21·0	4 30	18·5	7 34	23.7	9††
21·0	20·5	20·5	20·4	20·5	20·2	19·8	20·7	20·8	21·3	21 4	19·1	2 8	22·8	10††
20·9	21·2	21·2	21·0	20·9	20·7	20·7	21·0	21·4	20·7	4 42	18·0	1 30	22·0	11
21·5	21·3	21·3	21·4	21·5	21·6	21·5	21·8	22·2	21·7	4 30	20·1	6 58	23·0	12
21·1	21·3	21·2	21·4	21·1	21·2	21·2	21·5	21·7	21·2	4 30	18·5	0 0	22·6	13
21·7	21·8	21.8	21·7	21·6	21·6	21·7	21·9	21·9	21·7	4 34	19·3	8 16	22·9	14
21·5	21·6	21.7	21·7	21·5	21·6	21·7	21·8	21·8	21·3	4 38	19·6	23 56	22·0	15†
21·4	21·6	21.5	21·4	21·4	21·4	21·4	21·5	21·7	21·7	4 20	19·8	7 24	24·6	16†
21·6	21·6	21·6	21·4	21·1	21·1	21·1	21·2	21·6	21·3	4 30	19·6	2 0	22·2	17
21·5	21·5	21·5	21·6	21·3	21·2	21.3	21·4	21·6	**21·9**	4 30	20·1	7 10	**25·4**	18
21·4	21·5	21·3	21·1	21·0	21·0	21·1	21·1	21·2	21·5	4 14	20·0	7 10	23·6	19
21·4	21·1	21·0	21·0	20·8	20·7	20·9	21·1	21·3	21·2	4 54	18·1	8 20	24·1	20
20·9	21·5	21.1	20·5	20·5	20·2	20·1	20·2	20·3	21·1	4 14	18·6	7 50	23·3	21
29·9	21·0	20·9	20·9	21·1	20·9	21.0	21·0	21·1	21·0	4 44	19·1	8 50	22·7	22
20·9	20·9	20.9	20·9	21·1	21·0	21·2	21·5	21·7	20·9	4 36	17·4	1 50	22.0	23†
21·3	21·1	21·3	21·2	21·2	21·1	21·1	21·7	21·7	21·4	4 26	17·1	10 2	23·8	24
21·5	21·4	21·5	21·5	21·5	21·5	21·5	21·5	21·5	21·4	4 20	18·9	10 2	22·8	25†
21·3	21·7	21·7	21·7	21·6	21·7	21·7	21·7	22·0	21·5	11 30	20·2	8 4	23·1	26
21·5	21·5	21·1	20·9	20·6	20·4	20·1	20.4	20·4	21·2	4 48	19·1	13 12	22·8	27††
21·1	21·0	21·0	20·9	20·8	20·5	20·9	20·9	21·1	21·1	4 20	19·6	6 46	24·0	28
21·5	21·5	21·5	21·5	21·5	21·5	21·3	21·3	21·5	21·7	3 54	20·4	6 52	24·6	29
21·3	21·3	21·2	21·2	21·1	21·1	21·1	21·2	21·7	20·8	3 48	17·8	6 50	22·8	30††
21·7	21·5	21·5	21·3	21·4	21·5	21·5	21·5	21 6	21·6	4 0	19·3	7 16	24·4	31
21·2	21·2	21·2	21·1	21·1	21·0	21·0	21·1	21·3	21·2					Mean.
21·1	21·2	21·3	21·2	21·2	21·2	21·3	21·4	21·5	21·2					Mean†
21·1	21·0	20·8	20·7	20·7	20·6	20·5	20·8	20·9	21 0					Mean.††

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21·4	21·5	21·7	21·7	21·6	21·4	21·3	21·3	21·3	21·1	4 0	17·9	7 38	23·2	1
21·4	21·5	21·5	21·5	21·5	21·5	21·5	21·5	21·8	21·5	4 24	19·3	7 38	23·4	2
20·8	20·9	20·7	19.5	19·6	20·2	20·7	20·9	20·8	**20·4**	4 16	18·1	9 8	22·3	3††
20·9	21·0	20·8	20·6	20·3	20·3	20·3	20.5	20·7	20·8	4 0	19·4	6 20	22·5	4
21·2	21·5	21·1	21·1	20·9	20·7	21·0	20·7	20·9	21·1	4 40	19·2	1 20	22·1	5††
21·3	21·5	21·2	21·0	20·7	20·6	20·6	20·6	20·9	21·2	4 32	20·1	13 10	22·8	6
21·8	21·4	21·3	21·3	21·2	21·2	21·3	21·3	21·6	21·3	4 14	19·8	12 36	22·8	7
21·7	21.7	21·5	21·2	21·0	20·7	20·8	20·8	21·4	21·4	9 20	20·2	0 50	22·7	8†
21·6	21·6	21·1	20·6	20·2	19·6	19·8	20·4	21·6	21·7	19 52	19·2	2 0	23·0	9††
20.9	21·1	21·5	21·6	21·4	21·3	21·3	21·5	21·5	21·6	10 30	19·6	4 52	23·5	10
21·4	21·6	21·7	21·7	21·6	21·8	21·9	21·6	21·5	22·0	11 10	21·0	5 40	23·5	11
21·1	21·0	21·3	21·1	21·1	20·8	21·1	21·5	21·0	21·2	10 30	19·7	13 10	22·5	12
21·4	21·4	21·6	21·5	21·4	21·5	21·3	21·2	20·7	21·7	11 18	20·1	7 2	23·9	13
21·4	21·9	21·8	21·3	21·3	21·5	20·9	20·3	20·1	21·7	22 30	20·1	6 14	24·4	14
21·5	21·5	21·4	21·4	21·3	21·4	21·4	21·4	21·4	21·8	0 2	20·5	6 22	24·4	15
20·9	21·1	21·4	21·6	21.7	21·6	21·4	21·4	21·4	21·3	11 30	20·5	7 6	22·2	16
21·3	21·6	21·7	21·6	21·7	21·6	21·6	21·5	21·4	21·5	4 40	20·5	7 56	23·1	17
21·6	21·7	21·8	21·9	21·7	21·5	21·5	21·5	21·1	22·0	1 48	20·8	7 30	24·5	18
21·5	20·8	20·2	20·9	21·5	21·4	21·5	21·6	21·9	21·8	16 50	19·7	6 10	25·2	19††
21·9	21·8	21·8	21·8	21·6	21·5	21·4	21·3	21·4	22·1	11 6	21·1	5 26	24·2	20
21·5	21·5	21·9	22·1	21·9	22·4	21·4	21·5	21·6	21·7	3 14	20·1	6 52	23·9	21††
21·0	21·5	21·4	21·0	21·1	21·4	21·7	21·9	22·0	21·4	11 18	19·9	7 36	23·6	22
21·9	21·9	22·1	21·8	21·7	21·7	21·7	21·9	21·8	21·6	11 2	20·0	13 24	22·5	23†
21·6	22·0	22·0	21·9	21·6	21·6	21·5	21·5	21·8	21·4	3 20	20·1	8 18	22·5	24†
22·1	22·4	22·3	21·9	21·7	21·8	21·7	21·8	21·8	21·7	2 36	20·0	7 6	23·2	25
21·4	21·5	21 6	21·5	21·5	21·6	21·1	21·8	22·0	21·5	11 24	19·2	6 30	23·4	26†
21·3	21·5	21·7	21·7	21·6	21·7	21·7	21·8	21·7	22·0	12 0	20·1	6 54	24·9	27†
21·1	21·1	21·1	21·3	21·0	21·1	21·2	21·3	21·4	21·9	3 0	19·8	7 2	**25·6**	28
														29
21·4	21·5	21.5	21·3	21·3	21·3	21·2	21·3	21·4	21·5					Mean.
21·6	21·7	21·8	21·6	21·5	21·5	21·4	21·6	21·8	21·6					Mean†
21·3	21·2	20·9	**20·7**	20·8	20·7	20·8	20·9	21·3	21·3					Mean††

* The daily mean value of declination derived from 24 hourly values has been corrected for progressive change by adding 1/48th of the difference between the values at the terminal and initial hours.

†Five international quiet days.

††Five international disturbed days.

DECLINATION (WESTERLY), 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
††1	21·5	21·3	20·6	19·8	19·9	21·1	22·4	23·5	23·3	22·7	21·3	20·8	21·4	22·3	22·5
2	22.0	21·8	21·1	20·4	20·3	21·3	22·6	22·4	22·5	22·3	22·0	21·1	21·1	21·8	21·8
†3	21·4	21·0	20·9	21·1	21·6	22·6	23·7	**24·4**	24·1	23·3	22·1	21·1	21 5	22·2	22·0
4	22·2	22·0	21·3	20·5	20·2	20·4	21·9	23·5	23·3	22·3	21·2	21·1	21·1	21·5	21·9
††5	21·9	21·4	20·9	20·2	20·5	21·3	22·2	23·3	23·7	23·3	22·1	21·6	21·1	21·6	22·2
6	20·0	19·7	19·6	19·8	20·5	21·8	23·1	23·5	24·0	23·5	22·6	21·9	21·8	22·4	22·2
†7	21·8	21·9	21·1	20·6	20·9	21·6	22·4	22·7	22·9	22·7	22·0	21·3	21·4	21·7	21·8
†8	21·9	21·8	21·3	20·5	20·6	21·1	21·7	22·5	22·8	22·5	21·7	21·1	21·3	22·1	22·1
9	21.9	21·9	21·5	20·4	19·1	19·6	20·7	22·1	22·8	22·5	21·8	21·6	21·6	21·9	21·8
10	22·1	22·4	21·5	20·4	19·7	19·9	21·3	22·8	23·7	23·2	22·2	21·5	21·7	22·0	22·2
†11	22·2	22·3	22·1	21·1	20·5	21·1	22·0	23·1	24·0	23·7	22·7	21·9	22·0	22·4	22·1
†12	22·3	22·0	21·2	20·3	19·8	20·0	21·1	22·5	23·5	23·0	21·8	21·3	21·6	22·1	22·3
13	22·2	22·2	21·2	19·9	19·5	19·5	20·5	21·9	22·6	23·0	22·5	21·8	21·5	21·6	22·0
14	21·7	21·7	21·0	19·3	18·7	19·0	20·3	21·8	22·5	22·4	21·5	20·8	21·1	21·5	21·8
††15	21·0	21·0	20·6	19·8	19·3	19·5	19·5	20·1	21·9	22·6	22·1	21·0	20·7	19·9	19·4
16	21·7	22·1	22·1	21·3	20.7	20·4	20·1	20·9	21·9	21·7	20·8	20·7	20·9	21·3	**21·5**
17	21·6	21·5	20·8	19·7	19·1	19·2	20·1	20·8	21·8	21·9	21·5	20·8	21·1	21·5	21·8
18	21·7	21·8	21·0	20·1	20·0	20·4	21·3	22·0	22·2	21·7	20·8	20·7	21·2	22·0	22·0
19	21·3	21·1	20·8	19·9	19·4	19·4	19·9	21·5	22·3	21·9	21·4	20·8	21·5	21·5	21·8
20	21·5	21·5	20·2	20·3	19·7	19·2	19·5	20·4	21·5	21·8	21·1	20·5	20·6	21·3	21·7
21	21·5	21·5	21·1	20·2	19·4	18·9	19·4	21·2	22·1	21·7	21·3	20·8	21·3	22·1	22·5
22	21·9	22·3	21·5	20·5	19·8	19·6	20·2	21·9	22·3	22·3	21·4	20·6	20·1	20·8	21·5
23	21·6	21·5	21·3	19·8	19·2	19·5	20·6	22·2	22·6	21·9	20·6	20·1	20·6	21·4	21·3
24	21·8	21·7	20·6	19·6	19·3	19·2	20·1	22·2	23·4	23·2	22·3	21·6	21·4	21·6	21·6
25	21·6	21·3	20·2	19.0	19·0	19·8	21·1	23·1	23·8	23·7	22·3	21·7	21·5	21·9	22·1
26	21·8	21·6	20·3	19·0	**18 6**	19·1	20·3	21·9	22·7	22·7	21·6	21·3	22·0	22·3	21·8
††27	22·9	22·3	22·1	20·8	20·4	20·2	20·0	21·2	23·0	23·8	23·1	22·6	21·5	20·2	20·6
28	21·5	21·3	20·6	20·2	20·5	20·7	21·2	22·6	23·6	23·4	22·3	22·2	22·0	22·1	22·0
29	21·3	21·8	21·0	19·7	19·3	19·7	20·5	21·9	22·6	22·6	21·7	21·3	21·4	21·9	22·4
30	21·7	22·1	21·3	19·9	19·3	19·3	20·7	22·3	23·5	23·5	23·0	22·3	22·2	22·2	22·5
††31	22·3	21·9	20·4	19·8	19·5	19·7	20·6	22·6	22·9	22·4	21·6	21·5	21·6	21·7	21·6
Mean . .	21·7	21·7	21·0	20·1	**19·8**	20·1	21·0	22·2	**22·9**	22·7	**21·8**	21·3	21·4	21·7	21·8
Mean† . .	22·0	21·9	21·4	20·7	**20·7**	21·3	22·3	23·1	**23·5**	23·1	**22·1**	21·3	21·5	22·1	22·0
Mean†† . .	21·6	21·3	20·7	19·8	**19·7**	20·2	20·7	22·0	22·9	**22·9**	**22·0**	21·5	21·3	21·2	**21·3**

APRIL.

1	21·5	21·1	20·6	20·1	19·9	20·1	20·7	22·2	23·5	23·2	22·1	21·5	21·4	22·0	22·1
2	21·3	21·3	20·9	20·2	21·1	21·9	**23·6**	25·2	25·9	24·9	24·3	22·5	21·9	22·2	**22·2**
3	21·0	20·5	19·7	19·4	19·3	20·5	21·9	23·7	24·2	23·0	22·0	21·5	21·2	21·5	21·8
4	21·3	21·2	20·5	19·5	19·1	**19·6**	20·9	22·9	24·6	24·0	22·4	21·0	20·8	21·4	21·7
5	21·6	21·2	20·1	19·3	19·1	19·3	20·4	22·4	24·1	24·1	22·6	21·1	21·1	21·6	21·8
6	21·9	21·5	20·8	19·6	19·4	20·3	21·9	23·7	24·8	24·2	23·0	21·9	21·6	22·2	22·1
7	21·7	21·5	20·7	20·2	20·3	20·4	21·1	22·3	22·8	22·3	21·6	21·4	21·7	22·2	22·3
†8	22·1	21·6	21·1	21·4	21·3	21·0	21·0	21.7	22·6	22·8	22·6	22·5	22·5	22·6	22 4
†9	21·6	21·5	20·7	20·5	21·0	20·8	21·6	22.9	23·3	22·9	22·0	21·3	21·8	22·1	22 3
†10	21·9	21·9	21·0	20·2	19·9	19·7	20·3	22·9	24·3	23·6	22·3	21·2	20·5	21·1	22 1
11	21·9	21·6	20·7	20.2	20·0	20·6	22·3	24·8	25·2	24·5	23·1	21·7	21·2	21·4	22·0
12	21·4	21·0	19·3	18·9	19·8	20·8	22·2	23·6	23·8	23·8	23·2	22·8	22·5	22·5	22·0
13	20·3	19·7	19·1	19·2	19·3	20·1	21·3	22·7	23·3	23·2	22·4	21·3	21·0	21·3	21·8
†14	20·9	20·2	19·0	18·8	19·1	19·7	20·6	21·8	22·6	22·6	22·3	21·7	21·5	21·3	21·4
15	21·0	21·2	21·2	21·0	21·2	21·4	21·7	22·3	22·9	23·0	22·7	22·1	21·4	21·6	21·9
†16	21·0	21·1	20·9	20·9	21·2	21·6	22·5	23·7	24·3	23·8	22·6	21·1	20·4	21·0	21·7
17	21·4	21·1	19·7	19·2	19·8	21·0	21·7	22·2	22·5	22·5	22·2	21·7	21·8	22.4	22·4
18	21·3	21·0	20·0	19·1	18·6	19·0	20·5	22·3	23·8	24·1	23·8	23·0	22·4	22·3	21·8
19	21·3	20·7	19·3	19·2	19·7	20·5	21·7	22·8	23·3	22·9	22·3	21·9	21·3	21·6	21·7
20	21·7	20·6	19·5	19·6	20·3	21·0	22·0	23·2	23·7	23·5	22·5	21·3	20·6	21·0	21·5
21	21·2	20·2	19·4	19·3	19·7	20·7	22·0	23·6	24·6	24·4	23·8	22·7	21·2	20·7	21·2
22	20·9	20·2	19·2	18·9	19·7	21·1	22·9	24·2	24·4	24·5	23·3	22·4	21·5	21·3	21·7
23	21·5	20.9	19·4	18·9	19·3	21·1	23·0	24·3	24·8	24·3	22·7	21·0	20·8	21·5	21·7
††24	21·2	20·7	19·8	19·3	20·9	23·6	25·9	**26·3**	25·3	23·9	22·3	21·3	21·2	22·1	22·6
††25	17·3	17·7	18·0	17·9	18·7	20·6	22·4	23 2	23·8	22·8	21·8	20·9	20·7	20·8	20 9
††26	19·7	18·7	18·1	18·8	20·2	21·7	22·9	23·9	23·7	23·3	22·4	21·2	20·5	20·7	21·3
††27	18·3	18·1	17·0	17·6	19·5	21·3	22·5	22·6	22·1	21·1	20·2	19·4	19·0	19·4	20·5
††28	20·7	19·2	17·9	17·6	17·4	19·3	21·2	22·5	22·5	22·9	22·6	20·7	20·3	20·1	20·7
29	20·2	19·4	18·2	18·1	18·7	20·2	22·4	24·8	25·4	24·5	23·0	21·3	20·3	19·6	20·3
30	20·2	19·4	17·3	**16·5**	17·7	20·1	23·4	24·5	24·5	24·0	22·7	20·8	19·9	20·1	20·6
Mean . .	21·0	20·5	19·6	**19·3**	19·7	20·7	21·9	23 3	**23·9**	23·5	22·6	21 5	21·1	21·4	21·7
Mean† . .	21·5	21·3	20·5	**20·4**	20·5	20·6	21·2	22·6	**23·5**	23·2	22 4	21·5	21·3	21·6	22 0
Mean†† . .	19·3	18·8	**18·1**	18·1	19·2	21·3	23·0	**23·7**	23·5	22·8	21·9	20·7	20·3	20·6	21·2

†Five international quiet days.
††Five international disturbed days

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
22·4	22·4	21·7	21·8	21·7	21·4	20·6	20·0	21·3	21·6	3 38	19·3	7 14	23·7	1††
21·3	20·9	20·8	20·8	21·1	21·5	21·4	21·6	21·6	21·5	3 32	19·8	7 48	23·2	2
21·8	21·9	22·0	21·9	21·7	21·7	21·8	22·1	22·1	**22·1**	1 42	20·8	7 30	24·5	3†
21·6	21·8	21·7	21·8	21·8	21·7	21·9	21·9	21·8	21·7	4 10	20·1	7 20	23·9	4
22·5	21·9	21·2	21·0	20·8	21·1	21·1	20·9	20·5	21·6	23 59	20·0	7 34	24·4	5††
21·7	21·7	21·9	21·8	21·6	21·6	21·6	21·6	21·9	21·8	1 30	19·3	8 0	24·2	6
21·7	21·8	21·8	21·8	21·8	21·8	21·8	21·8	22·0	21·8	3 0	20·5	8 16	23·1	7†
22·0	22·0	22·1	22·1	21·9	21·8	22·0	22·1	21·9	21·8	3 18	20·2	7 50	22·9	8†
21·8	21·9	21·9	21·7	21·5	21·3	21·3	21·5	21·7	21·5	4 10	19·1	8 20	22·9	9
22·1	22·0	21·9	21·7	21·7	21·7	21·8	22·0	22.0	21·8	4 28	19·4	7 50	23·7	10
22·0	21·7	21·8	21·8	21·9	21·9	22·0	22·1	22·1	22·1	4 2	20·3	8 0	24·1	11†
22·0	22·0	22·1	22·0	21·9	21·9	22·0	22·1	22·1	21·8	4 10	19·6	8 10	23·6	12†
22·2	22·1	21·7	21·7	21·7	21·9	22·1	22·1	21·7	21·6	4 4	19·2	8 46	23·3	13
21·7	21·4	21·2	21·1	21·1	21·1	20·9	21·0	21·1	21·1	3 30	18·5	8 10	22·7	14
20·3	21·2	21·2	20·9	21·1	21·3	21·3	21·5	21·5	**20·8**	14 2	19·0	9 48	22·8	15††
21·3	21·5	21·3	20·9	20·6	21·0	21·0	21·2	21·3	21·2	6 0	20·0	1 30	22·5	16
21·5	21·4	21·5	21·3	21·1	21·0	21·0	21·3	21·5	21·0	3 46	19·0	8 34	22·3	17
21·7	21·5	21·1	21·2	21·2	21·2	21·0	21·2	21·2	21·3	4 0	19·9	7 50	22·4	18
21·8	21·7	21·7	21·6	21·5	21·4	21·5	21·5	21·5	21·2	5 20	19·2	8 10	22·4	19
21·6	21·6	21·5	21·5	21·4	21·3	21·3	21·3	21.2	21.0	5 22	19·0	8 30	22·2	20
22·3	22·3	22·3	22·1	21·7	21·5	21·5	21·5	21.8	21·4	5 0	18·8	13 52	22·6	21
21·4	21·2	21·3	21·3	21·2	21·4	21·4	21·4	21·5	21·2	5 0	19·3	8 30	22·6	22
21·9	21·9	22·1	21·9	21·8	21·9	21·8	21·9	21·8	21·3	3 44	19·0	7 38	22·8	23
21·3	21·3	21·6	21·6	21·6	21·5	21·6	21·9	21·9	21·4	4 0	19·0	8 12	23·7	24
22·1	22·1	22·1	22·0	21·9	21·6	21·7	21·8	21·9	21·6	3 20	18·9	8 32	24·3	25
22·0	22·1	22·1	22·1	21·8	21·8	22·0	22.3	22·7	21·5	3 58	**18·3**	23 38	23·4	26
20·7	21·4	21·7	21·5	20·8	20·7	20·9	21·5	21·5	21·5	5 40	19·9	8 44	24·4	27††
22·0	22·0	22·2	22·1	21·7	21·2	21·3	21·4	21·5	21·7	3 40	20·1	8 30	24·2	28
23·6	22·4	22·1	21·8	21·8	21·7	21·4	21·5	21·6	21·5	3 50	19·1	8 30	22·7	29
22·7	22·7	22·2	22·1	21·7	21·5	21·5	21·9	22·2	21·9	4 20	19·1	8 50	23·9	30
21·3	20·8	20·6	20·6	20·7	20.4	20·5	20·8	21·2	21·1	3 56	19·2	8 44	**24·6**	31††
21·8	21·8	21·7	21·6	21·5	21·5	21·5	21·6	21·7	21·5					Mean.
21·9	21·9	21·9	21·9	21·8	21·8	21·9	22·0	22·0	21·9					Mean†
21·5	21·6	21·4	21·3	21·2	21·2	21·1	21·2	21·5	21·3					Mean††

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21·8	21·9	21·9	21.7	21·6	21·6	21·5	21.4	21·6	21·5	4 18	19·0	8 18	23·7	1
22·1	22·2	21·7	21·2	21·0	20·7	20·7	20·4	20.7	**22·1**	3 0	20·1	7 58	26·2	2
21·3	21·2	21·3	21·3	21·3	21·2	21·2	21·5	21·4	21·4	3 30	18·8	7 30	24·4	3
21·6	21·3	21·4	21·4	21·1	21·0	21·1	21·4	21·7	21·4	4 0	19·0	8 12	24·8	4
21·5	21·7	21·7	21·5	21·5	21·3	21·3	21·6	21·8	21·4	3 56	18·9	8 30	24·5	5
22·7	22·5	22·2	21·9	21·6	21·5	21·6	21·6	21·6	21·9	3 50	19·2	8 0	25·0	6
22·3	22·2	22·1	22·1	22·1	21·9	21·7	21·8	21·8	21·7	3 4	20·2	7 50	22·9	7
22·3	22·3	22.0	21·8	21·7	21·7	21·6	21·6	21·6	21·9	5 20	20·6	8 50	22·9	8†
22·2	22·1	22·1	21·9	21·7	21·6	21·5	21·6	21·8	21·8	2 4	20·2	7 50	23·4	9†
22·4	22·4	22·2	21·9	21·9	21·9	21·6	21·9	21·9	21·7	5 22	19·6	7 54	24·5	10†
22·2	22·1	21·9	21·3	21·5	21·4	21·2	21·3	21·4	21·9	4 0	19·9	7 30	25·3	11
21·2	20·7	20·5	20·3	20·2	20·1	20·2	20·2	20·5	21·3	2 50	18·8	9 14	24·2	12
21·7	21·4	21.3	20·9	20·7	20·7	20·7	21·1	21·0	21·1	2 24	18·8	8 20	23·6	13
21·5	21·5	21·5	21·3	21·1	20·9	20·8	20·8	21·0	21·0	3 10	18·8	8 30	22·9	14†
21·9	21·9	21·6	21·2	21·0	21·1	21·1	21·0	21.0	21·6	0 0	20·8	8 30	23·1	15
22·0	21·9	21·7	21·4	21·3	21·4	21·3	21·2	21·3	21·7	12 6	20·3	8 10	24·5	16†
22·4	22·3	21·9	21·9	21·8	21·7	21·3	21·5	21·4	21·6	2 38	19·1	8 16	22·7	17
21·9	21·6	21·3	21·3	21·3	21·3	21·1	21·3	21·3	21·5	4 30	18·6	8 30	24·4	18
21·8	21·7	21·6	21·4	21·6	21·7	21·7	21·3	21·7	21·5	2 46	19·0	7 50	23·6	19
21·6	21·5	21·3	21·4	21·3	21·5	21.4	21·4	21·4	21·4	2 14	19·3	8 10	24·0	20
21·4	21·6	21·5	21·3	21·4	21·3	21·3	21·3	21·2	21·5	2 58	19·2	7 52	24·8	21
21·8	21·9	21·9	21·8	21·7	21·3	21·3	21·3	21·6	21·7	2 50	18·8	8 30	24·9	22
21·9	21·7	21·7	21·6	21·5	21·0	21·0	21.1	21·2	21·6	2 14	1 ·8	7 20	25·0	23
22·8	22·5	22 0	21·8	21·4	20·3	19·4	19·2	17·5	21·7	23 10	16·6	6 42	**26·7**	24††
20·9	22·0	21·7	20·9	19·8	18·8	18·5	18·9	19·5	20·4	0 34	16·3	7 36	25 9	25††
21.8	21·6	21·6	21·6	21·2	20·2	19·8	17·3	18·0	20·8	22 36	**15·2**	7 10	24·1	26††
20·7	20 5	20·4	20·3	20·4	20·5	20·3	20·2	20·8	**20·1**	2 14	16·3	6 18	22·7	27††
21·1	21·5	21·1	21·2	20·6	20·3	20·1	20·4	20·6	20·5	3 24	17·0	9 50	23·4	28††
20·7	20·7	20·6	20·7	20·9	20·9	20·3	20·2	20·0	20·9	3 10	18·0	7 56	25·9	29
20·6	20·6	20·4	20·2	20·4	20·1	19·9	19·8	19·8	20·6	3 20	16·4	7 0	24·7	30
21 7	21·7	21·5	21·3	21·2	21·0	20·9	20·9	20·9	21·4					Mean.
22·1	22·0	21·9	21·7	21·5	21·5	21·3	21·4	21·5	21·6					Mean†
21 5	21·7	21·4	21·2	20·7	20·1	19·7	19·3	19·3	20·7					Mean††

*See footnote on page B-7.
†Five international quiet days.
††Five international disturbed days.

DECLINATION (WESTERLY), 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	20·0	19·6	18·7	18·6	19·1	21·2	22·9	23·6	23.4	23·2	22·0	20·8	20·1	20·2	20·6
2	20·6	20·0	18·7	18·5	18·9	20·0	21·7	23·1	23.5	22·9	22·1	21·2	20·3	20·5	21·1
3	21·1	20·3	19·6	19·0	19·3	21·0	22·6	23·6	24·0	23·7	23·1	21·9	21·1	20·6	21·1
4††	20·5	19·9	18·4	18·1	19·3	21·3	22·8	23·7	24·1	23·6	22·9	21·9	21·1	21·0	21·3
5††	18·7	18·9	18·4	18·4	18·7	19·5	20·7	22·3	23·4	23·2	22·1	20·3	19·1	18·3	20·0
6†	20·4	19·2	18·5	18·6	20·4	22·6	23·6	24·9	25·0	23·7	22·3	21·0	20·2	20·3	21·0
7†	20·4	19·1	17·9	18·8	20·4	22·0	22·9	23·2	23·3	22·7	21·6	20·8	20·5	20·8	21·5
8	20·5	19·6	18·6	18·8	20·3	22·2	23·6	23·9	23·1	22·1	20·7	19·9	19·8	20·6	21·5
9	21·0	19·9	18·9	19·2	20·5	22·0	23·1	23·8	24·1	23·1	21·9	20·9	20·9	21·0	21·4
10	20·6	19·8	19·2	19·4	20·7	22·3	23·1	23·4	23·5	22·9	22·1	21·5	20·9	20·9	21·2
11	20·5	19·7	18·2	17·7	18·4	20·1	21·6	23·1	23·5	23·0	22·2	21·7	21·3	21.3	21·2
12	20·6	19·7	18·4	17·7	18·4	20 2	23·4	25·1	24·8	24·0	23·1	22.2	21·6	21.7	22·7
13	21·1	20·4	19·1	18·4	18·5	20·5	23·1	24·3	24·9	24·7	23·9	22·8	22·0	21·7	22·5
14	21·1	20·4	18·9	18·1	18·3	19·7	22·0	23·8	24·8	24·7	23·5	22·6	21·7	21·7	22·5
15	20·9	19·8	18·5	18·1	18·4	20·2	22·5	24·1	24·3	23·6	22·5	21·7	21·3	20·9	21·3
16	21·2	20·9	20·1	19·5	20·1	21·8	24·0	25·7	24·8	23·0	21·7	21·1	20·9	20·9	21·7
17	21·3	20·9	20·0	19·8	19·6	20·0	21·9	22·8	23·0	22·2	22·0	21·5	21·3	21·4	21·5
18†	21·1	20·0	19·1	18·9	19·9	21·6	23·7	24·7	24·6	23·8	22·4	22·0	22·0	21·8	21·9
19	21·6	20·3	19·1	18·7	19·2	20·5	21·4	23·2	24·3	24·4	23·5	22·6	21·8	20·7	21 2
20†	21·2	20·1	19·8	20·3	20·9	22·3	23·3	23·6	23·2	22·0	21·0	20·5	20·1	20 2	21·0
21	21·1	19·7	18·5	18·1	19·4	21·4	23·3	24·6	25·0	24·4	22·8	21·5	20·8	21·0	21·7
22	20·7	19·7	18·6	18·4	19·4	22·1	24·4	25·4	24·8	23·4	22·0	20·7	20.9	20·9	21·4
23†	21·0	19·3	18·7	18·7	19·2	20·5	22·5	23·7	24·0	23·3	22·1	21·4	21·0	21·0	21·6
24	20·9	20·1	19·1	19.4	20·8	22·4	23·5	24·8	25·5	**26·0**	25·3	24·2	22·8	21·9	22·1
25	21·0	19·7	18·2	18·0	19·3	20·7	22·5	24·0	24·7	24·5	24·0	22·4	21·4	21·4	21·5
26	20·7	19·3	19·3	18·3	19·3	21·2	23·1	24·9	25·9	25·5	25·1	24·3	23·3	22·2	22·0
27††	21·1	20·1	19·4	19·6	20·2	21·5	23.0	24·2	24·8	24·5	23·7	23·0	22·3	21·1	21·1
28††	22·4	21·4	18·6	**17·3**	17·5	19·6	21·5	23·2	23·8	24·0	23·9	22·3	21·8	21·5	20 2
29††	21·6	20·9	19·7	19·7	20.3	22·0	23·4	24·9	25·1	24·4	23·3	22·6	21·6	21·1	21·5
30	20·9	20·0	18·7	18·3	19·5	21.7	23·0	23·5	23·9	24·2	22·9	22·1	21·4	20·9	21·7
31	21·4	20·3	19·4	18·9	19·1	20·3	22·2	24·2	25·1	25·3	24·1	22·8	22·2	22·0	22·2
Mean . .	20·9	20·0	18·9	**18·7**	19·5	21·1	22·8	24·0	**24·3**	23·7	22·8	21·8	21·2	21·0	21·5
Mean† . .	20·9	19·6	**18·8**	19·1	20·1	21·8	23·3	**24·1**	24.1	23·1	21·9	21·1	20·7	20·8	21·4
Mean†† . .	20·9	20·2	18·9	**18·5**	19·1	20·7	22·3	23·7	**24·3**	24·0	23·2	22·0	**21·2**	20·6	20·8

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1	21·4	20·7	18·8	18·1	19·1	20·6	22·1	23·7	24·3	24·2	24·3	23·3	22·6	21·8	22·1
2	21·1	20·1	18·8	18·3	18·9	20·7	22·4	23·6	24·7	24·5	23·8	23·4	22·6	21·9	21·9
3	21·5	20·8	20·4	20·3	20·6	21·3	22·3	23·2	22·9	22·3	22·5	22·3	22·3	22·3	22·5
4	21·8	21·4	20·4	20·2	20·9	22·0	23·1	23·5	23·4	23·1	22·9	22·1	21·9	22·0	22·5
5††	21·8	20·8	20·3	20·4	21·3	22·1	23·4	23·7	23·3	22·7	23·4	23·3	22·5	21·8	21·9
6††	20·9	19·8	19·6	20·4	21·1	21·2	21·4	22·1	22·5	22·4	21·5	2[illegible]·9	2[illegible]·5	20·5	20·3
7	20·1	19·3	18·6	19·4	20·4	22·1	23·1	24·1	24·7	24·7	24.6	23.9	22·8	21.7	21·5
8	20·2	19·4	18·4	18·3	19·1	20·1	21·5	23·1	24·2	23·9	22·7	21·8	21·6	21·5	21·9
9†	21·4	20·4	18·4	18·0	18·6	20·2	21·5	23·1	24·1	23·8	23·2	22·2	21·1	21·1	21·8
10	21·1	20·0	18·7	17·9	18·3	19·8	21·8	23·1	23·9	24·3	23·8	22·7	22·1	21·7	21·9
11†	21·7	21·1	19·7	20·1	19·9	20·8	22·1	23·2	24·3	24.1	23·5	23·2	22·4	21·9	21·7
12†	21·3	20·5	19·7	19·8	19·9	20·4	21·8	22·9	24·0	24·1	24·0	22·9	22·0	21·5	22·0
13††	22·1	21·0	19·5	18·8	18·8	19·7	20·8	22·8	23·5	23·8	23·4	22·2	21·6	20·9	21·7
14	21·4	20·2	19·4	19·1	20·0	21·0	22·9	23·3	23·9	24·5	24·2	23·7	22·6	22·2	22·5
15	21·4	20·1	19·0	18·6	19·4	20·7	21·5	22·5	23·8	24·6	24·4	23·6	22·6	21·9	22·4
16	21.6	20·7	19·0	18·6	19·2	2[illegible]·2	21·9	23·5	24·7	24·4	23·6	23·2	22·7	22·2	22·2
17	21·0	18·3	17·8	18·5	19·7	21·1	22·6	23·6	23·4	22·8	22·6	22·7	21·8	21·5	22·1
18	21·5	19·8	18·9	18·9	19·8	21·1	23·0	24·1	24·0	23·1	22·6	21·8	21·8	21·4	21·3
19†	21·7	20·4	19·7	19·6	20·1	22·6	25·6	26·3	26·5	25·1	23·8	22·6	22·3	21·7	22·0
20††	21·5	20·4	[illegible]·6	19·4	20·1	21·6	23·0	24·5	23·3	22·6	22·5	22·6	22·3	22·2	22·3
21	20·2	18·3	**16·8**	17·5	19·4	21·1	23·0	24·4	25·0	24·8	24·1	23·0	22·2	22·0	22·1
22	20·7	19·0	18·3	19·2	20·7	22·8	24·8	25·0	24·9	25·1	24·7	23·4	22·7	22·1	22·4
23	20·1	19·7	18·9	19·7	21·1	22·2	23·4	25·5	25·5	24·2	22·9	22·4	22·2	22·3	22·7
24	21·3	20·3	[illegible]·1	19·2	20·3	22·3	24·5	24·7	24·5	23·6	22·7	21·6	21·4	21·8	22·1
25	20·7	19·0	19·2	21·3	23·3	24·8	25·3	25·8	25·3	24·5	23·4	22·3	21·4	22·0	22 5
26†	21·2	19·9	18·9	20·1	22·2	23·3	22·9	23·2	24·0	24·1	22·9	21·9	21·0	21·4	22·2
27††	21·6	20·3	19·3	18·7	19·6	21·5	22·8	23·7	24·2	24·1	23·4	22·8	22·9	22·9	23·1
28	21·1	19·9	19·7	19·9	21·0	21·9	23·0	24·3	24·7	24·0	23·6	22·8	22·9	22·6	22·2
29	21·5	19·9	19·1	19·6	20·7	22·8	24·4	25·9	**26·6**	26·3	25·3	24·0	23·1	22·5	22·4
30	22·1	21·3	19·7	18·3	18·9	21·3	24 6	25·8	25·6	24·5	24·6	23·4	22·6	22·1	22·5
Mean . .	21·2	20·1	**19·1**	19·2	20·1	21·4	22·9	23·9	**24·3**	24·0	23·5	22·7	22·1	21·9	22·1
Mean† . .	21·5	20·5	**19·3**	19·5	21·1	21·5	22·8	23·7	**24·7**	24·3	23·5	22·5	21·7	21·5	21·9
Mean†† . .	21·2	20·1	19·3	**19·2**	19·9	21·0	22·1	23·2	23·2	23·0	22·8	22·3	22·0	21·7	21·9

† Five international quiet days.

†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
21·1	21·3	21·1	20·7	21·0	20·7	20·9	20·7	20·6	20·9	2 44	18·4	7 16	23·7	1
21·2	21·2	21·2	21·3	21·1	20·9	20·8	20·9	21·1	20·9	2 20	18·4	8 10	23·5	2
21·2	21·1	21·0	20·9	20·5	20·5	20·4	20·6	20·5	21·2	3 22	18·8	8 28	24·3	3
21·6	21·6	21·4	21·0	20·5	20·1	19·8	19·7	19·4	21·0	2 56	17·5	7 58	24·2	4††
20·2	20·2	20·5	20·5	20·5	20·5	20·5	20·7	20·7	**20·3**	2 26	17·9	8 14	25·6	5††
21·2	21·2	21·1	21·0	20·9	20·9	20·8	20·9	20·8	21·3	2 0	18·4	7 24	25·3	6†
21·7	21·8	21·9	21·5	21·4	21·0	20·7	20·6	20·6	21·1	2 0	17·9	7 20	23·5	7†
21·9	22·0	22·0	22·0	21·7	21·4	21·3	21·1	21·0	21·3	2 20	18·4	6 40	24·1	8
21·5	21·5	21·4	21·4	21·0	20·9	20·5	20·5	20·5	21·3	2 18	18·7	7 36	24·3	9
21·3	21·3	21·1	20·7	20·6	20·9	20·5	20·7	20·6	21·2	2 40	18·9	7 30	23·6	10
21·5	21·3	20·9	20·9	20·8	20·6	20·4	20·5	20·7	20·9	2 58	17·5	7 30	23·5	11
22·7	22·1	22·0	21·6	21·3	21·3	21·1	21·1	21·3	21·6	3 10	17·3	7 10	25·2	12
22·0	22·0	21·5	21·5	21·5	21·3	21·3	21·1	21·1	21·7	3 30	18·2	7 50	25·1	13
22·6	22·3	21·7	21·1	21·2	21·1	21·3	21·7	21·3	21·6	3 36	17·6	8 10	24·8	14
21·6	21·9	21·7	21·7	21·6	21·5	21·5	21·3	21·3	21·3	2 56	17·7	7 42	24·5	15
21·7	21·5	21·4	21·7	21·8	21·6	21·3	21·8	21·8	21·7	3 0	19·4	7 10	**26·0**	16
21·6	21·6	21·6	21·5	21·5	21·5	21·5	21·5	21·4	21·4	3 14	19·6	7 52	23·2	17
21·9	21·8	21·7	21·5	21·4	21·7	21·5	21·4	21·6	21·8	3 0	18·7	7 32	24·9	18†
21·5	21·4	21·4	21·1	21·3	21·3	21·5	21·5	21·5	21·4	2 58	18·7	8 26	24·6	19
21·4	21·5	21·6	21·7	21·8	21·9	21·9	21·9	21·8	21·5	1 52	19·8	6 30	23·9	20†
22·0	22·2	21·7	21·5	21·7	21·5	21·5	21·4	21·3	21·6	3 2	18·0	7 36	25·2	21
22·0	22·1	22·2	21·9	21·6	21·5	21·4	21·5	21·4	21·6	3 10	18·3	7 10	25·4	22
21·5	21·4	21·5	21·5	21·5	21·4	21·2	21·2	21·3	21·3	2 20	18·4	7 58	24·2	23†
22·1	22·1	22·1	22·1	21·9	21·5	21·5	21·4	21·3	**22·3**	2 16	19·0	8 50	26·0	24
21·7	21·7	21·5	21·4	21·1	20·7	20·7	20·7	20·0	21·4	2 8	17·5	7 30	24·9	25
22·2	22·1	21·9	21·3	21·1	21·0	21·3	21·3	21·1	22·0	3 10	18·0	8 14	26·0	26
21·9	21·6	21·8	21·6	21·4	21·3	21·1	20·9	21·4	21·8	1 42	19·2	8 38	25·1	27††
20·6	20·9	21·4	21·8	22·0	21·4	21·1	21·7	21·8	21·3	3 20	**16·4**	9 20	24·2	28††
21·8	21·8	21·8	21·6	21·5	21·0	21·0	20·8	21·3	21·0	2 14	19·3	8 0	25·3	29††
22·3	22·2	22·1	22·1	22·0	21·9	21·9	21·9	21·8	21·7	3 6	17·9	8 50	24.7	30
22·4	22·3	22·1	21·9	21·7	21·5	21·5	21·5	21·5	21·9	3 16	18·7	7 52	25·3	31
21·7	21·6	21·5	21·4	21·3	21·2	21·1	21·1	21·1	21·4					Mean
21·5	21·5	21·6	21·4	21·4	21·4	21·2	21·2	21·2	21·4					Mean†
21·3	21·2	21·4	21·3	21·2	20·9	20·7	20·8	21·0	21·3					Mean††

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22·4	22·1	22·1	21·8	21·4	21·7	21·6	21·5	21·5	21·8	3 4	17·9	8 30	24·5	1
22·6	22·4	22·4	22·1	21·9	21·5	21·4	21·6	21·6	21·9	2 42	18·1	8 0	25·0	2
22·8	22·4	22·1	22·0	22·0	21·9	21·9	21·9	22·0	22·0	3 20	20·2	7 10	23·4	3
22·8	22·7	22·5	22·0	22·3	21·9	22·0	22·1	22·0	22·2	2 58	20·2	7 14	23·8	4
22·1	22·1	21·9	21·4	21·0	21·3	21·5	21·2	21·2	21·9	2 30	20·2	7 26	24·0	5††
21·1	20·9	21·1	21·5	21·5	21.3	21·5	21·2	20·5	**21·0**	1 24	19·1	7 38	22·7	6††
21·8	22·0	22·0	21·8	21·3	20·9	20·5	20·5	20·5	21·8	1 26	18·5	8 10	24·8	7
22·4	22·4	21·9	21.6	21·5	21·2	20·8	20·7	20·9	21·3	2 30	18·1	8 10	24·3	8
22·0	22·1	22·1	22·0	21·8	21·7	21·5	21·5	21·4	21·5	2 40	17·9	8 10	24·1	9†
22·5	22·4	22·3	22·0	21·8	21·7	21·7	21·8	21·8	21·6	3 26	17·8	8 50	24·5	10
22·4	22·3	22·3	22·0	21·9	21·6	21.5	21·5	21·5	21·9	3 4	19.1	8 28	24·5	11†
22·2	22·0	22·0	21·9	22·1	22·0	22·3	22·1	22·1	21·9	2 10	19·7	10 8	24·5	12†
22·2	22·7	22·1	22·1	22·1	22·0	22·0	22·0	21·9	21·6	4 21	17·8	8 44	24·3	13††
22·5	22·4	22·2	22·0	21·7	21·7	21·7	21·7	21·7	22·0	1 59	19·1	9 10	24·6	14
22·6	22·3	22·2	22·1	21·9	21·8	21·9	22·1	21·7	21·9	2 40	18·6	9 6	25·0	15
22·6	22·6	22·2	22·0	21·7	21·7	21.5	21·4	21·6	21·9	2 54	18·5	8 0	24·8	16
22·5	22·5	22·5	22.0	21·7	21·7	21·9	21·6	21·9	21·6	1 10	17·5	7 10	24·0	17
21·4	22·0	22·1	22·3	22·1	22·2	22·3	21·9	22·0	21·7	2 20	18·4	7 20	24·4	18
22·4	22·2	22·1	22.1	22·0	21·9	22·0	22·0	22·0	22.5	3 10	19·4	7 50	**26·9**	19†
22·2	22·1	21·8	21·4	21·2	21·0	21·4	21·2	20·8	21·7	2 52	19·3	7 10	25·0	20††
22·3	22·1	22·0	21·7	21·7	21·6	21·8	21·5	21·3	21·7	2 20	**16·2**	8 30	25·3	21
22·7	22·5	22·1	22·0	21·6	20·9	20·7	20·7	20·4	22·1	1 50	18·1	6 18	25·1	22
22·8	22·7	22·5	22·4	22·2	22·0	22·0	22·0	21·7	22·2	2 0	18·8	7 10	25·8	23
21·6	21·9	22·1	22·0	21·5	21.4	21·5	21·5	21·4	21·8	2 26	18·6	6 30	25·1	24
22·3	22·4	22·4	22·4	22·3	22·0	21·7	21·5	21·5	22·5	1 30	18·3	6 50	25·8	25
22·5	22·4	22·1	21·9	21·9	21·9	21·9	21·9	21·9	22.0	2 10	18·7	8 30	24·3	26†
23·2	23·3	22·0	21·8	21·8	21·3	20·9	21·3	21·1	22·0	3 0	18·4	7 48	24·5	27††
22·3	22·1	22·1	22·3	21·9	21·9	21·7	21·7	21·8	22·2	2 24	19·5	7 30	25·1	28
22·5	22·6	22·7	22·6	22·5	22·3	22·4	22·3	22·3	**22·8**	2 10	18·9	7 50	26·6	29
22·8	22·8	22·6	22·4	22·1	21·8	21·8	22·0	22·1	22·4	3 20	18·0	7 0	25·9	30
22·3	22·3	22·1	22·0	21·8	21·7	21·7	21·6	21·5	21·9					Mean
22·3	22·2	22·1	22·0	21·9	21·8	21·8	21·8	21·7	22·0					Mean†
22·3	**23·4**	22·0	21·9	21·8	21·7	21·8	21·7	21·5	21·7					Mean††

*See footnote on page B-7.
†Five international quiet days.
††Five international disturbed days.

DECLINATION (WESTERLY), 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	21·8	20·7	19·7	19·1	19·7	21·6	23·6	24·4	24·2	24·4	24·3	22·9	22·3	22·3	21·9
2	21·7	20·7	19·6	19·4	20·7	22·7	23·2	23·5	24·8	24·7	24·2	23·6	22·9	22·5	22·5
3†	21·4	20·1	19·2	19·4	21·2	23·2	24·8	25·8	25·5	24·3	23·1	22·7	22·5	22·3	22·8
4	21·6	20·2	19·4	19·5	20·7	22·5	24·8	25·5	25·6	25·2	23·7	22·2	21·8	22·2	23·4
5	21·3	20·0	18·7	18·2	18·8	20·6	23·0	24·7	24·7	23·8	22·9	22·5	22·3	22·5	22·9
6	21·6	20·1	19·2	18·9	19·2	20·4	22·0	23·2	23·8	24·1	24·2	23·2	22·3	21·6	22·1
7	22·0	20·4	19·5	20·1	20·6	23·2	25·5	26·6	26·5	26·6	25·5	23·7	22·6	23·0	23·4
8†	21·2	19·5	18·4	18·0	18 9	19·9	21·5	22·6	23·9	24·9	24·4	22·7	21·9	21·6	22·3
9	21·3	19·9	18·6	18·2	19·5	22·0	24·6	25·3	25·6	25·3	24·3	23·2	22·4	22·2	22·8
10	22·4	21·0	19·6	18·8	19·2	20·7	22·4	23·7	24·5	25·2	24·4	23·0	21·9	21·4	21·7
11	21·4	20·1	18·8	18·7	19·1	21·2	23·1	24·4	24·8	24·5	23·9	22·8	22·5	22·3	22·4
12	22·1	21·4	19·4	19·1	19·7	21·3	23·1	24·1	24·6	25·0	24·9	23·7	22·7	22·2	22·5
13	21·7	20·3	19·2	18·7	19·2	20·7	23·2	24·8	25·0	24·3	24·1	23·6	22·5	21·5	21·8
14††	21·7	20·1	18·8	18·5	19·0	20·7	23·0	24·5	24·5	23·8	22·9	22·5	21·8	21·4	21·4
15	21·1	20·0	19·1	18·7	20·0	21·8	24·1	26·2	26·7	26·2	25·1	24·2	23·6	22·3	22·1
16	21·1	20·2	19·3	18·8	19·4	21·7	24·1	24·6	25·3	24·4	23·0	21·7	20·8	20·3	21·2
17	21.5	19·8	18·3	18·2	18·8	20·1	22·1	23·0	22·5	22·6	22·5	22·4	22·3	22·4	23·0
18	21·4	19·6	18·1	18·8	20·4	22·5	23·6	24·3	24·5	24·8	24·0	23·3	22·9	22·6	23·2
19††	21·7	20·7	19·5	19·2	19·8	21·2	22·2	23·2	24·7	24·9	24·1	23.1	21·8	22·3	23·4
20††	20·4	19·0	18·3	19·0	20·5	22·3	23·3	24·5	24·8	25·0	24·8	24·3	23·8	23·1	22·9
21	20·9	20·0	19·3	19·8	20·2	21·8	23·1	24·4	25·5	25·0	23·5	21·7	20·4	20·4	21·9
22††	22·0	20·6	19·5	20·6	22·6	23·3	23·6	24·0	24·0	23·3	22·3	22·1	22·1	21·5	21·4
23	20·5	19·1	18·3	18·8	19·6	20·9	22·5	24·6	25·2	24·7	23·8	22·4	21·3	21·1	22·2
24††	19·9	18·0	18·5	18·9	20·3	22·3	24·4	25·6	25·9	25·3	24·4	23·0	21·8	21·3	21·8
25	19·9	19·9	18·8	19·0	20·5	22·6	24·9	25·4	25·3	25·5	24·6	23·3	22·0	21·9	22·1
26	20·9	20 0	19·3	18·8	19·8	21·7	24·4	24·7	24·5	24·7	24·1	22·0	20·9	20·6	21·1
27†	20·7	19·2	17·9	18·2	20·0	21·5	22·9	24·3	25·3	25·6	25·0	24·1	22·9	22·3	22·6
28†	21·4	20·3	19·3	19·6	21·4	23·2	25·5	26·7	26·8	25·5	23·8	22·5	21·7	21·8	22·5
29†	2 ·5	20·9	19·9	20·3	22·4	24·3	25·8	26·5	26·7	25·8	24·8	23·4	22·5	22·0	22·4
30	21·7	20·5	18·6	18·0	18·5	20·6	22·7	24·2	24·6	24·1	23·5	23·4	23·4	23·3	23·5
31	21·8	21·5	20·2	20·4	21·7	23·3	24·6	25·3	25·3	25·3	24·6	23·3	22·8	22·1	22·2
Mean .	21·3	20·1	19·0	19·0	20·1	21·8	23·6	24·7	25·0	24·8	24·0	23·0	22·2	21·9	22·4
Mean†	21·4	20·1	19·0	19·1	20·9	22·5	24·2	25·2	25·7	25·3	24·3	23·1	22·3	22·0	22·5
Mean†† .	20·9	19·3	18·7	19·0	20·2	21·8	23·1	24·3	24·7	24·4	23·6	23·0	22·2	21·9	22·2

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1	22·2	20·8	18·8	18·5	19·4	21·1	22·9	23·5	23·6	22·6	21·7	21·9	22·2	22·2	22·5
2††	22·5	21·4	20·0	20·4	21·2	21·7	22·2	23·0	24·1	23·6	23·0	23·2	22·9	21·8	21·9
3††	20·3	19·3	18·1	18·1	19·5	21·3	22·9	22·5	22·1	22·4	23·0	23·4	23·0	22·4	22·1
4††	19·8	19·0	18·0	18·6	19·5	21·2	22·2	23·3	23·9	23·3	22·8	21·7	21·1	20·9	21·1
5	20·9	19·7	18·1	17·9	19·0	20·7	23·4	25·7	26·1	26·1	24·9	23·0	22·4	22·0	22·3
6	20·9	19·1	17·0	17·1	19·7	23·3	24·8	24·9	24·9	24·3	23·0	21·6	20·4	20·3	21·7
7	20·5	17·8	16·4	17·1	20·5	23·9	25·9	26·2	26·1	26·2	24·6	23·2	21·7	21·2	22·2
8	21·0	19·1	16·9	16·4	18·3	20·0	21·9	22·5	22·8	23·1	23·0	21·9	21·0	20·8	21·6
9	21·5	19·8	17·9	17·1	18·3	20·7	22·8	24·5	25·3	25·4	24·9	24·2	22·5	20·9	21·5
10	21·5	19·9	18·3	18·0	19·1	22·2	24·7	25·5	26·0	26·1	25·5	24·4	23·2	21·8	21·6
11	21·5	20·4	18·1	17·5	19·1	21·7	23·4	24·8	25·2	25·0	24·0	23·4	22·8	22·2	22·2
12	21·2	19·9	18·0	17·6	19·2	21·0	23·6	26·0	27·3	27·0	25·5	24·3	22·8	22·2	22·0
13†	21·4	19·8	18·0	17·9	20·0	21·9	24·3	26·4	26·7	25·8	24·9	23·6	22·3	21·6	21 9
14	20·9	19·5	17·8	18·0	20·1	21·8	23·8	25·0	25·5	24·8	23·3	22·2	21·5	21·5	21·8
15	20·8	19·9	19·0	18·7	19·2	20·2	21·6	23·0	23·9	23·7	23·3	22·5	21·9	21·5	21·7
16†	21·1	20·2	19·1	19·0	20·4	22·2	23·0	23·6	24·1	23·7	22·8	21·8	21·1	20·9	21·6
17	21·4	20·5	19·3	20·2	21·1	22·2	23·2	23·3	23·7	24·2	23·8	22·3	21·3	21·7	21·9
18	21·5	20·4	19·3	18·8	19·2	19·9	21·5	23·7	24·7	24·4	23·3	21·8	21·1	21·7	22·1
19	21·3	20·5	19·3	19·8	21·1	22·7	23·1	23·7	23·9	23·3	23·0	22·9	22·8	22·5	22·3
20	20·8	20·0	19·3	19·6	20·6	21·8	23·2	23·9	24·4	24·0	22·9	22·1	21·8	22·1	22·3
21	20·9	20·4	19·9	20·5	21·7	22·8	23·1	23·7	24·1	23·4	22·8	22·3	22·1	22·3	22·6
22††	20·9	19·6	18·8	19·4	21·2	22·2	23·5	22·6	23·9	24·4	23·3	22·7	22·7	22·8	22·6
23	19·2	18·4	17·3	17·7	18·7	20·5	21·8	22·6	23·4	23·2	22·3	21·7	21·6	21·5	21·3
24†	20·5	19·7	18·3	18·0	19·1	20·3	22·0	23·4	24·1	23·9	22·7	21·2	20·2	20·2	21·3
25†	21·5	21·1	20·3	20·5	21·0	22·6	24·1	25·1	25·3	24·7	23·3	21·8	20·8	20·5	21·3
26	21·1	20·3	18·7	17·9	18·7	20·2	23·0	25·8	27·2	26·3	25·4	23·9	22·4	21·5	21·9
27††	21·2	20·5	19·5	19·3	19·6	21·2	22·6	23·5	24·1	23·8	23·3	22·4	21·7	21·7	21·1
28	21·3	19·7	18·3	18·1	18·9	20·8	22·9	23·6	24·3	24·4	23·5	21·9	20·1	20·2	21·7
29	20·7	19·3	17·7	17·1	17·8	19·2	20·7	21·6	22·9	23·0	22·1	21·1	20·7	21·1	21·6
30†	21·0	20·0	18·9	19·4	20·8	21·9	23·2	24·4	24·4	23·4	21·9	21·2	20·6	21·3	21·8
31	21·6	21·1	19·2	18·3	19·4	21·0	22·0	22·6	23·1	22·4	21·6	21·1	21·2	21·7	22·0
Mean .	21·1	19·9	18·5	18·5	19·7	21·4	23·0	24·0	24·5	24·3	23·4	22·5	21·7	21·5	21·9
Mean†	21·2	20·3	19·0	19·0	20·3	21·9	23·4	24·7	25·0	24·4	23·1	21·9	21·0	20·9	21·5
Mean†† .	20·7	19·6	18·5	18·9	20·0	21·3	22·5	22·8	23·5	23·4	23·0	22·6	22·3	21·9	21·8

† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
22·3	22·6	22·6	22·6	22·4	22·3	22·4	22·1	21·9	22·3	3 4	19·0	9 28	24·7	1
22·6	22·4	22·5	22·4	22·1	22·4	22·1	21·7	21·5	22·3	2 40	19·1	8 14	25·0	2
23·2	22·9	22·6	22·4	22·2	22·0	21·8	21·8	21·8	22·5	2 2	19·0	7 6	26·1	3†
23·5	23·3	23·0	22·5	22·5	22·1	21·8	21·8	21·8	22·5	2 26	19·1	7 24	25·7	4
23·3	23·5	23·6	23·4	22·9	22·5	22·4	22·0	22·0	22·2	3 12	17·8	7 22	25·2	5
22·3	22·0	22·0	22·1	22·2	22·1	22·3	22·2	22·2	21·9	2 50	18·8	9 32	24·7	6
23·3	22·9	22·6	22·5	22·5	22·2	22·4	22·3	21·7	23·0	2 10	18·8	8 26	26·9	7
22·9	22·8	22·8	22·5	22·5	22·5	22·4	22·0	22·0	21·8	3 0	17·8	9 10	25·3	8†
23·1	23·5	23·4	23·1	22·7	22·7	22·5	22·8	22·5	22·6	2 54	18·0	8 6	25·8	9
21·7	22·4	22·4	22·5	22·3	22·2	22·1	22·0	22·1	22·0	3 14	18·6	9 10	25·3	10
22·7	22·5	22·5	22·4	22·4	22·1	22·3	22·4	21·9	22·1	2 30	18·3	7 54	25·0	11
22·7	22·5	22·5	22·2	22·2	22·1	22·3	22·2	22·3	22·4	2 24	18·9	9 30	25·4	12
22·5	22·5	22·5	22·6	22·6	22·6	22·5	22·8	22·3	22·2	3 0	18·7	7 34	25·5	13
21·1	21·0	20·9	21·6	22·1	22·5	22·4	22·0	21·5	21·7	2 24	18·3	7 24	24·8	14††
22·2	21·7	22·1	22·4	22·4	22·4	22·2	22·3	21·9	22·5	3 10	18·6	7 50	27·1	15
21·9	22·6	22·9	22·8	22·6	22·5	22·4	22·4	22·3	22·0	3 10	18·6	7 54	25·4	16
23·4	23·3	23·3	23·2	22·5	22·3	22·4	22·3	22·1	21·9	2 50	18·1	14 26	23·4	17
23·3	23·3	23·1	22·9	22·6	22·4	22·2	22·2	21·9	22·4	2 6	17·9	8 30	25·0	18
24·2	23·9	23·2	22·6	22·2	21·6	21·2	20·8	20·8	22·1	2 44	19·1	8 30	25·2	19††
23·0	22·6	22·5	22·3	22·0	21·8	21·6	21·4	21·2	22·3	7 8	18·0	9 34	25·6	20††
22·8	22·7	22·5	22·5	22·5	22·2	22·2	22·1	22·2	22·1	2 30	19·0	8 14	25·6	21
22·0	22·0	21·9	21·9	21·9	21·5	21·3	21·5	21·1	22·0	2 12	19·4	7 24	24·3	22††
22·9	22·8	22·5	22·2	21·8	21·6	21·3	21·1	20·7	21·7	2 12	18·1	7 50	25·5	23
21·9	22·3	22·4	22·1	21·7	21·7	21·3	21·0	20·8	21·9	1 24	17·2	7 44	26·1	24††
21·9	21·8	21·7	21·7	21·9	22·2	21·7	21·4	21·0	22·1	2 42	18·5	9 6	25·6	25
21·3	21·9	22·1	22·1	22·1	21·9	21·7	21·6	21·5	21·8	3 20	18·6	6 46	24·9	26
22·8	23·1	22·9	22·7	22·3	22·3	22·3	22·3	22·1	22·3	2 10	17·6	9 18	25·7	27†
22·7	22·6	22·6	22·5	22·5	22·4	22·2	21·9	21·9	22·6	2 18	19·0	7 40	27·1	28†
22·7	22·7	22·5	22·5	22·4	22·4	22·4	22·3	22·1	23·0	2 4	19·8	8 10	26·8	29†
23·5	23·4	23·1	22·9	22·6	22·3	22·0	21·9	21·9	22·3	3 14	18·0	7 50	24·8	30
22·7	22·7	22·3	22·3	22·4	22·4	22·3	22·3	22·3	22·7	2 24	19·9	7 10	25·3	31
22·7	22·7	22·6	22·5	22·3	22·2	22·1	22·0	21·8	22·2					Mean.
22·9	22·8	22·6	22·4	22·3	22·2	22·1	22·0	21·9	22·4					Mean.†
22·5	22·5	22·3	22·2	22·1	20·0	21·9	21·6	21·4	22·0					Mean.††

AUGUST.

23·1	23·0	22·8	22·8	22·7	22·7	22·7	23·0	22·8	22·1	2 30	18·3	7 36	24·1	1
22·8	23·0	22·2	22·0	22·1	21·8	21·3	21·1	20·9	22·0	1 58	19·8	8 6	24·4	2††
22·9	23·0	22·9	22·6	22·2	21·7	21·6	21·4	20·7	21·6	2 0	18·0	11 4	23·8	3††
21·8	22·1	22·0	21·8	21·8	21·7	21·6	21·6	21·3	21·3	1 50	17·5	7 34	24·1	4††
22·4	22·5	22·3	22·0	22·0	21·9	21·9	21·9	21·7	22·1	2 12	17·9	8 30	26·3	5
22·2	22·3	21·9	21·9	21·9	22·3	22·1	21·9	21·6	21·7	2 30	16·7	6 10	25·0	6
22·8	22·7	22·3	22·4	22·3	22·1	22·1	22·1	21·8	22·3	2 12	16·1	6 20	26·5	7
22·0	22·0	22·0	21·9	22·1	22·0	22·2	22·1	21·9	21·2	2 42	16·2	9 14	23·1	8
22·1	21·9	21·7	21·8	21·8	21·9	22·1	22·2	22·1	21·9	2 56	17·0	8 30	25·5	9
21·8	21·7	21·7	21·7	21·8	21·9	22·0	22·0	22·0	22·3	2 48	17·6	8 30	26·4	10
22·4	22·6	22·4	22·0	21·8	21·8	21·8	21·7	21·5	22·0	2 38	17·4	7 50	25·3	11
22·5	22·5	22·4	22·2	22·0	21·8	21·7	21·7	21·7	22·3	2 30	17·4	8 30	27·5	12
22·3	22·0	22·0	22·1	21·9	21·7	21·7	21·5	21·4	22·2	2 36	17·5	7 34	27·0	13†
21·9	22·2	22·2	22·3	22·4	22·0	21·8	21·6	21·6	21·9	2 0	17·6	8 10	25·5	14
22·1	22·1	22·1	22·0	22·0	21·9	21·8	21·6	21·5	21·6	3 0	18·6	7 50	24·1	15
22·1	22·2	22·2	22·2	22·3	22·2	22·1	21·9	21·8	21·8	3 0	18·8	8 2	24·2	16†
21·9	22·0	22·0	21·9	21·9	21·9	21·9	21·7	21·7	22·0	2 2	19·1	8 46	24·2	17
22·2	22·4	22·5	22·4	22·3	22·1	21·7	21·7	21·6	21·8	3 8	18·7	8 18	25·0	18
22·3	22·1	21·9	22·1	21·7	21·6	21·4	21·4	21·0	22·0	1 50	19·2	7 20	24·0	19
22·4	22·3	22·4	22·2	21·9	21·5	21·3	21·1	21·1	21·9	2 6	19·0	8 12	24·5	20
21·9	22·0	21·9	21·9	21·8	21·4	21·4	21·1	21·1	22·0	2 3	19·9	7 58	24·2	21
22·4	22·1	21·5	21·1	20·5	20·4	19·7	19·4	19·2	21·5	2 8	18·7	9 26	28·3	22††
21·6	21·5	21·5	21·3	21·1	20·9	20·7	20·6	20·7	20·9	2 18	17·1	8 20	23·5	23
21·6	21·6	21·6	21·6	21·5	21·5	21·5	21·5	21·5	21·2	3 0	17·9	8 32	24·1	24†
21·6	21·7	21·7	21·6	21·5	21·2	21·2	21·2	21·2	21 9	2 18	20·2	8 6	25·3	25†
22·4	22·5	22·4	21·9	21·6	21·5	21·4	21·4	21·3	22·1	3 32	17·5	7 54	27·6	26
20·7	20·3	20·7	21·5	21·5	21·5	21·9	21·6	22·2	21·5	2 48	19·1	8 6	24·1	27††
21·8	21·7	21·6	21·7	21·8	21·7	21·7	21·7	21·4	21.4	2 50	17·9	8 42	24·7	28
21·6	21·8	21·9	21·9	21·6	21·5	21·5	21·6	21·4	20·9	3 8	16·9	8 30	23·1	29
21·7	21·8	21·7	21·7	21·6	21·6	21·6	21·6	21·6	21·7	2 16	18·7	7 46	24·7	30†
22·0	22·2	21·1	21·9	21·8	21·8	21·7	21·7	21·9	21·5	2 58	17·8	7 50	23·1	31
22·1	22·1	22·0	22·0	21·8	21·7	21·6	21·6	21·5	21·8					Mean.
21·9	21·9	21·8	21·8	21·7	21·6	21·5	21·5	21·4	21·8					Mean.†
22·2	22·2	22·0	22·0	21·8	21·7	21·5	21·3	21·2	21·6					Mean.††

*See footnote on page B-7.
†Five international quiet days.
††Five international disturbed days.

DECLINATION (WESTERLY), 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G.M.T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1††	21·6	20·5	19·1	19·0	20·5	23·0	25·1	26·2	26·5	25·8	24·5	22·9	22·2	22·1	22·1
2	21·0	20·3	18·7	18·2	19·4	21·4	23·2	24·4	24·5	24·1	23·3	21·8	21·6	21·6	21·8
3†	21·2	20·1	18·4	18·4	19·9	21·1	23·2	24·8	25·9	25·8	23·9	22·1	20·8	20·8	21·7
4	21·2	20·4	18·9	18·9	19·9	22·2	24·5	25·8	25 7	24·2	22·6	21·5	21·8	21·9	21·5
5	21·5	20·0	17·8	17·1	19·1	21·3	23·5	24·9	24·7	23·6	22·0	20·7	20·1	20·4	21·8
6	21·5	20·5	18·8	18·0	19·3	21·6	23·6	24·5	24·9	24·3	23·4	22·1	21·3	21·0	21·7
7	21·2	19·9	18·1	18·2	19·9	21·8	23·3	24·3	23·5	22·5	21·9	20·9	20 7	21·2	21·9
8	21·1	20·7	19·4	18·3	19·4	21·9	24·8	26·7	26·9	25·9	24·5	23·7	21·9	21·9	22·0
9	21·2	20·7	19·0	18·0	18·9	20·8	22·8	24·3	24·6	23·7	23·0	22·6	22·2	22·0	22·2
10††	21·8	21·0	19·3	18·7	19·9	21·7	24·1	25·8	25·8	24·9	24·1	23·1	22·5	22·3	22·1
11††	21·1	19·9	18·2	18·4	19·5	20·7	22·3	24·5	24·9	24·5	23·2	21·6	20·7	20·8	21·0
12†	21·5	20·8	19·8	19·9	20·7	21·8	22·9	23·9	23·8	23·0	22·0	21·3	20·8	20·8	21·3
13	21·6	20·7	20·1	18·7	20·2	21·9	23·5	24·7	25·2	24·7	23·7	22·6	21·5	21·2	21·2
14††	21·3	20·5	18·9	18·8	19·8	21·2	22·8	24·4	24·4	23·8	22·5	21·6	21·9	22·3	22·4
15	21·7	21·5	20·2	19·9	21·1	22·5	23·7	24·0	23·7	22·7	21·6	20·9	21·4	22·1	22·0
16	21·9	20·9	19·9	19·1	19·8	21·9	23·7	24·4	24·5	23·5	21·9	21·0	21·7	22·0	21·9
17	21·3	20·8	19·6	19·3	19·8	21·0	22·2	23·5	23·3	22·5	21·6	21·0	21·5	22·2	22·5
18	21·7	20·8	19·0	19·5	21·3	22·9	24·2	24·9	24·6	23·5	22·1	21·6	21·8	22·2	22·3
19	21·0	20·4	18·5	18·5	19·7	21·6	23·3	25·3	25·5	24·1	22·9	22·3	21·9	21·9	21·9
20	21·7	20·6	19·2	19·2	20·7	22·4	24·4	25·4	24·8	23·9	23·0	22·0	21·9	22·3	22·4
21	21·6	20·8	19·2	18·7	20·0	21·3	23·2	24·2	24·7	23·9	22·5	21·7	21·6	22·0	22·4
22	21·9	21·2	19·9	19·6	20·7	21·9	23·5	24·6	25·2	24·7	23·5	22·3	21·7	22·0	22·1
23	22·3	21·2	19·5	18·5	19·1	20·5	22·2	23·3	23·9	23·5	22·3	21·2	20·8	21·6	21·9
24	21·8	21·1	19·7	19·0	19·4	20·5	22·2	23·2	24·3	24·2	22·6	21·5	21·2	21·8	21·8
25†	21·9	21·2	19·7	18·6	19·1	21·0	22·6	24·0	24·9	24·3	23·3	22·9	22·9	23·2	22·9
26	22·2	22·1	21·3	20·1	19·7	21·1	22·6	23·6	23·7	23·2	22·7	22·4	22·6	22·5	22·1
27	21·5	20·9	19·3	18·9	19·7	21·5	22·9	24·4	24·7	24·0	23·0	22·7	22·9	22·8	21·9
28†	22·0	21·5	20·0	19·2	19·6	20·4	21·8	23·5	24·3	23·7	22·9	22·7	22·8	22·5	22·1
29†	22·4	21·8	20·4	19·2	19·5	20·1	20·9	22·4	23·7	23·7	23·1	22·7	22·3	22·4	22·0
30††	22·3	21·7	20·1	19·0	19·4	21·2	23·0	24·3	24·7	24·2	23·0	22·7	22·5	22·6	22·8
Mean .	21·6	20·8	19·3	18·8	19·8	21·5	23·2	24·5	24·7	24·0	22·9	22·0	21·7	21·9	22·0
Mean† .	21·9	21·2	19·7	19·0	19·8	20·9	22·3	23·8	24·6	24·1	23·1	22·3	21·9	21·9	22·0
Mean†† .	21·5	20·6	18·9	18·6	19·7	21·4	23·4	25·0	25·3	24·6	23·4	22·3	21·9	22·0	22·1

OCTOBER.

1	21·0	19·6	18·0	17·7	17·9	18·4	20·4	22·5	23·6	23·0	22·4	21·4	21·0	21·8	21·6
2	21·4	20·6	19·0	18·7	19·5	21·1	22·5	23·9	24·2	23·0	22·0	21·5	21·8	22·5	22·3
3	21·6	20·9	19·0	18·4	18·8	19·9	21·3	22·8	23·2	23·0	22·4	21·7	20·6	21·1	20·6
4††	20·1	19·7	19·1	17·9	18·7	19·3	19·4	21·4	22·7	22·3	21·4	21·3	20·9	20·8	21·0
5	20·8	20·3	18·6	17·5	17·7	20·1	23·1	24·5	24·3	23·3	21·6	20·9	20·9	21·7	21·4
6	21·4	20·8	19·1	17·9	18·0	20·1	22·7	24·9	25·8	24·8	22·7	21·7	21·7	22·1	21·9
7	22·3	21·5	19·7	16·7	17·4	19·6	22·7	24·5	25·2	24·8	23·3	22·1	21·5	21·9	21·7
8††	22·1	21·4	20·0	19·1	19·4	20·0	21·5	22·7	23·7	23·1	22·3	21·6	21·4	21·6	21·4
9††	21·5	21·2	19·6	18·3	18·5	20·1	21·8	23·2	23·9	23·2	22·0	21·8	21·7	20·3	19·9
10††	19·2	19·6	18·9	18·7	20·3	21·7	24·1	24·7	24·2	23·2	22·0	21·5	21·1	22·1	22·1
11††	21·2	21·3	20·3	19·8	19·9	20·5	21·5	22·8	23·5	23·0	22·4	21·5	22·0	22·0	21·6
12	21·2	21·1	20·9	21·5	22·1	22·3	23·0	24·3	23·9	22·7	22·2	22·1	22·3	22·3	22·3
13	20·7	20·7	20·1	19·5	19·9	20·9	22·4	23·5	23·4	22·5	22·1	21·6	21·7	21·9	22·1
14	21·7	21·6	20·1	18·6	18·3	18·9	20·2	21·8	22·1	21·1	21·4	22·3	22·3	22·3	22·0
15	22·1	22·3	22·0	21·2	20·9	21·5	22·0	22·3	22·7	22·6	22·8	22 5	22·1	22·3	22·5
16	21·6	21·7	21·0	20·6	20·3	20 9	22·4	23·2	22·6	21·8	21·3	21·2	21·4	22·3	22·1
17†	21·4	21·3	20·5	20·1	21·1	22·1	22·7	23·3	23·1	22·1	21·7	21·1	21·5	21·9	21·9
18†	22·2	21·8	20·8	20·6	20·8	21·4	22·2	22·7	22·7	21·8	21·2	20·9	21·5	22·2	22·1
19	21·9	21·7	21·0	21·0	21·8	22·3	23·6	24·1	23·8	23·2	22·0	21·3	21·8	22·7	22·3
20†	21·9	21·2	20·7	20·8	21·7	22·4	23·3	23·7	23·2	22·1	21·0	21·4	22·3	23·0	22·4
21	22·0	21·8	21·0	21·1	21·9	23·2	24·4	24·7	23·8	22·5	21·5	20·8	21·5	22·2	21·9
22	22·3	22·0	21·7	21·1	21·6	23·5	24·5	24·0	23·5	22·9	22·4	22·3	22·6	22·7	21·5
23	21·8	21·6	20·6	19·6	20·3	21·9	23·2	23·6	23·5	22·6	22·0	21·4	21·4	21·6	21·2
24	23·0	22·1	22·0	21·7	22·2	22·8	23·9	24·3	23·8	22·9	22·1	22·3	22·1	21·6	21·8
25	21·7	21·3	20·5	19·8	20·1	21·0	22·4	23·6	23·9	24·2	24·1	23·3	22·7	21·5	21·4
26	22·3	22·0	21·4	20·8	20·0	20·0	21·9	22·9	23·0	22;4	21·9	21·6	22·2	21·4	21·1
27	22·1	21·6	21·1	21·1	22·2	23·0	23·8	24·4	23·7	22·1	21·3	20·8	20·9	21·2	21·3
28	21·6	21·6	21·4	21·5	22·0	22·8	23·8	24·3	23·7	22·9	22 8	22·3	22·4	22·3	21·9
29†	21·9	21·8	21·2	21·4	22·0	23·1	24·0	23·8	23·1	23·1	23·2	23·2	22·9	22·8	22·1
30†	22·2	22·0	21·4	21·2	21·5	21·9	22·5	22·6	22·5	21·9	21 5	21·5	22·3	22·9	22·4
31	22·4	22·4	22·0	21·8	21·6	22·2	23·7	23·9	23·3	23·0	22·8	22·6	22·6	22·7	22·2
Mean .	21·6	21 3	20·4	19·9	20·3	21·3	22·6	23·5	23·5	22·8	22·1	21·7	21·8	22·0	21·7
Mean†	22·1	21·7	21·0	20·9	21·5	22·2	23·0	23·3	22·9	22·2	21·7	21·6	22·1	22·6	22·2
Mean†† .	20·8	20·7	19·6	18·7	19·4	20·3	21·7	23·0	23·7	23·0	22·0	21·5	21·4	21·4	21·3

† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Hours (G.M.T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
21·9	22·0	22·1	21·8	21·5	21·1	21·1	20·9	21·2	**22·3**	2 46	18·8	8 4	26·7	1††
21·8	22·0	21·7	21·7	21·6	21·4	21·4	21·4	21·3	21·7	2 42	17·7	8 23	24·5	2
21·9	21·9	21·9	21·7	21·7	21·7	21·7	21·7	21·7	21·9	2 31	18·1	8 30	26·1	3†
21·2	21·5	21·8	21·9	21·8	21·5	21·8	21·8	21·7	21·9	2 42	18·5	7 20	26·0	4
21·9	22·2	22·1	22·2	21·9	21·8	21·8	21·8	21·9	21·5	2 38	**16·4**	7 18	25·2	5
22·0	22·2	22·1	22·0	21·8	21·7	21·8	21·5	21·5	21·8	2 53	17·8	7 55	25·1	6
22·1	22·1	21·9	21·9	21·8	21·6	21·5	21·7	21·6	21·5	2 41	17·8	7 30	24·5	7
21·8	21·8	21·9	21·9	21·7	21·5	21·1	21·1	21·2	22·2	2 59	18·0	8 8	**27·0**	8
22·1	22·0	22·1	21·9	21·8	21·7	21·6	21·7	21·8	21·8	3 0	18·0	7 41	24·8	9
22·2	22·4	22·2	22·3	22·0	21·3	21·3	20·6	21·0	22·2	2 48	18·4	7 42	26·0	10††
21·1	21·3	21·5	21·5	21·6	21·3	21·4	21·6	21·6	**21·4**	1 52	17·9	7 39	24·9	11††
21·3	21·8	21·9	21·7	21·7	21·5	21·7	21·7	21·5	21·6	2 50	19·5	7 28	24·2	12†
21·9	22·1	22·1	22·0	21·9	21·9	21·6	22·0	21·6	22·0	2 46	18·4	8 25	25·4	13
22·4	22·4	22·3	21·9	21·8	21·7	21·7	21·7	21·7	21·9	2 42	18·5	7 27	24·6	14††
21·9	22·3	22·2	22·3	22·0	21·9	22·0	22·0	22·0	22·0	2 58	19·5	7 12	24·2	15
22·0	21·9	21·8	21·9	22·0	21·7	21·8	21·8	21·7	21·9	3 2	19·1	7 12	24·7	16
22·2	22·1	22·2	22·0	21·8	21·8	21·7	21·9	21·9	21·7	2 58	19·3	7 18	23·8	17
22·2	21·8	21·7	21·3	21·4	21·7	21·6	21·6	21·1	21·9	2 8	18·7	7 0	24·9	18
22·1	22·1	22·2	22·1	22·0	21·9	21·9	21·9	21·9	22·0	2 40	18·2	7 40	25·7	19
22·4	22·4	22·4	22·3	21·9	21·9	21·9	21·9	21·9	22·2	2 30	18·9	7 12	25·4	20
22·6	22·3	22·3	22·1	22·0	21·9	21·8	21·7	21·9	21·9	3 6	18·6	7 40	24·8	21
22·0	21·8	21·8	21·8	21·9	22·0	22·3	22·4	22·3	22·2	2 36	19·4	8 22	25·6	22
22·0	22·1	22·0	21·9	21·9	21·9	21·8	22·0	21·9	21·6	3 12	18·4	7 30	23·9	23
21·8	22·0	22·1	22·0	21·9	21·9	21·9	21·9	21·9	21·7	2 36	18·9	8 4	24·5	24
22·6	22·5	22·6	22·4	22·2	21·9	21·9	22·2	22·3	22·2	3 20	18·4	8 2	24·9	25†
21·5	21·2	21·5	21·7	21·7	21·7	21·7	21·8	21·9	21·9	3 22	19·7	7 40	23·8	26
21·4	21·5	21·7	21·8	21·7	21·7	21·8	21·8	22·0	21·9	2 46	18·5	8 10	24·9	27
21·7	21·7	21·8	21·8	21·7	21·7	21·8	21·8	22·3	21·9	3 12	19·1	8 16	24·4	28†
21·9	22·0	22·1	22·0	21·8	21·8	21·8	22·1	22·4	21·9	3 26	19·1	8 30	23·9	29†
22·8	22·6	21·1	19·8	19·1	20·0	20·5	20·4	20·8	21·7	3 26	18·8	8 0	24·8	30††
22·0	22·0	22·0	21·9	21·7	21·6	21·7	21·7	21·7	21·9					Mean.
21·8	21·9	22·1	21·9	21·8	21·7	21·7	21·9	22·0	21·9					Mean.†
22·1	22·2	21·9	21·5	21·3	21·2	21·3	21·2	21·4	21·9					Mean.††

OCTOBER.

21·1	21·1	21·0	20·1	20·6	21·1	21·2	21·7	21·8	20·9	4 16	16·5	7 50	23·8	1
22·1	21·8	21·8	21·5	21·5	21·3	21·4	21·7	21·7	21·6	2 20	18·4	7 56	24·4	2
20·6	21·1	21·3	21·3	21·2	20·8	21·1	21·0	21·1	21·0	2 38	18·7	7 30	23·3	3
21·4	21·4	21·3	21·3	21·0	20·7	20·8	20·7	20·6	**20·7**	3 12	17·3	7 56	23·0	4†††
21·0	21·7	21·8	21·8	21·6	21·5	21·4	21·3	21·3	21·3	3 10	17·2	7 14	24·7	5
21·8	21·8	21·9	21·7	21·7	21·7	21·8	21·9	22·1	21·8	3 30	17·8	7 34	**25·9**	6
21·4	21·6	21·7	21·6	21·4	21·3	21·3	21·8	21·7	21·6	2 46	**16·4**	8 14	25·3	7
21·5	21·3	21·5	21·3	21·3	21·3	21·4	21·5	21·6	21·4	3 16	18·5	8 10	23·8	8††
18·8	19·7	21·1	20·9	21·1	21·0	20·6	19·9	19·5	20·8	3 14	18·1	8 0	24·1	9††
21·8	21·8	21·5	21·1	21·2	21·0	20·9	21·4	21·2	21·5	2 56	18·5	6 28	25·5	10††
20·6	21·8	21·5	21·0	20·7	20·8	20·8	20·9	21·3	21·3	3 28	19·5	8 0	23·6	11††
22·3	21·9	21·8	21·6	21·3	20·7	20·2	19·9	20·2	21·8	21 46	19·6	7 42	24·7	12
21·5	22·0	21·8	21·6	21·5	21·4	21·3	21·6	21·7	21·6	2 32	19·2	7 46	23·8	13
21·8	21·9	21·9	21·8	21·5	21·3	21·4	21·7	22·0	21·3	3 26	18·0	8 0	22·5	14
21·8	21·7	21·1	20·8	20·3	20·8	20·8	21·1	21·6	21·7	19 22	19·9	8 12	22·9	15
22·1	21·8	21·8	21·4	21·3	21·4	21·3	21·3	21·4	21·6	3 30	19·9	6 50	23·3	16
21·8	22·1	22·1	22·0	21·8	21·8	21·9	21·9	22·1	21·8	3 2	19·9	7 30	23·7	17†
22·2	22·4	22·4	22·1	22·0	21·8	21·8	21·8	21·8	21·8	3 2	20·3	7 14	22·9	18†
22·1	22·3	22·3	21·9	21·8	21·8	21·7	21·7	21·7	22·2	2 16	20·8	7 8	24·1	19
22·3	22·3	22·3	22·2	21·9	21·9	21·9	21·9	22·0	22·1	2 18	20·5	7 20	23·8	20†
21·7	21·8	21·8	21·8	21·9	21·8	21·5	21·5	21·9	22·1	10 50	20·8	6 46	25·0	21
21·5	22·1	22·1	21·9	21·8	21·9	21·7	21·4	21·5	22·3	3 6	20·9	6 6	24·9	22
21·6	21·5	21·1	21·1	21·6	21·8	21·7	21·9	22·3	21·7	3 16	19·5	7 20	23·7	23
21·7	21·0	21·0	21·2	21·4	21·1	21·4	21·7	21·7	22·1	16 56	20·8	6 22	24·6	24
21·6	21·2	21·7	21·6	21·5	21·6	21·8	21·9	22·1	21·9	2 30	19·7	9 10	24·4	25
21·3	21·3	21·4	21·7	21·5	21·6	21·6	22·2	21·8	21·6	4 18	19·6	7 10	23·5	26
21·4	21·2	21·4	21·5	21·6	21·7	21·7	21·6	21·6	21·8	11 26	20·6	7 16	24·9	27
21·7	21·9	22·1	21·9	21·9	21·8	21·8	21·7	21·9	22·3	2 42	21·1	6 56	24·5	28
21·6	21·9	22·1	21·9	22·0	22·1	21·9	21·9	22·0	**22·4**	1 58	21·0	6 20	24·1	29†
22·2	22·3	22·5	22·2	22·1	22·1	22·1	22·2	22·1	22·1	3 4	21·2	12 52	23·1	30†
22·2	22·4	22·3	22·0	22·0	21·7	21·7	21·6	21·9	22·4	4 20	21·4	6 30	24·0	31
21·6	21·7	21·7	21·5	21·5	21·4	21·4	21·5	21·6	21·7					Mean.
22·0	22·2	22·3	22·1	21·9	21·9	21·8	21·9	21·9	22·0					Mean.†
20·8	21·2	21·4	21·1	21·1	21·0	20·9	20·9	20·8	21·1					Mean.††

* See footnote on page B-7.
† Five international quiet days.
†† Five international disturbed days.

DECLINATION (WESTERLY), 1937.

(Averages for sixty minutes centred at the full hours of Greenwich meantime.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	22·1	22·1	22·0	21·4	21·8	22·3	22·7	22·8	22·9	22·8	22·6	22·5	22·5	22·6	22·4
2	22·2	22·4	21·9	21·6	21·5	21·7	21·8	21·6	20·9	20·2	20·7	22·1	22·9	23·1	22·5
3	22·8	22·5	22·1	21·1	21·0	21·7	21·8	21·5	21·2	20·7	21·0	21·5	22·7	23·0	22·6
4†	22·6	22·6	22·4	21·6	21·1	22·5	23·2	23·3	23·1	22·9	22·9	22·8	22·8	22·7	22·4
5†	22·6	22·7	22·7	22·3	22·7	23·4	24·5	24·6	23·4	22·5	22·2	22·7	23·1	22·9	22·3
6†	22·2	22·2	22·1	22·0	22·2	22·7	23·1	22·9	22·6	22·5	22·5	22·6	22·7	22·9	22·6
7	22·6	22·6	22·1	21·7	21·5	21·6	23·0	23·4	22·5	21·7	21·9	22·5	22·6	22·6	22·4
8	22·2	22·4	22·1	21·5	21·7	22·8	23·1	23·1	22·8	22·4	21·8	21·7	22·0	22·2	22·1
9	21·7	21·8	21·9	22·0	21·7	22·1	23·1	22·8	21·4	21·2	21·1	21·5	22·4	21·5	21·4
10	21·9	22·0	22·0	21·7	21·8	22·1	23·1	22·9	21·5	20·9	21·6	21·8	22·2	22·6	22·6
11	22·2	22·1	22·5	22·3	21·9	22·0	22·9	22·8	21·5	21·1	22·3	21·8	22·4	22·4	22·4
12	21·4	21·4	21·4	21·3	21·1	21·9	22·7	22·4	21·9	21·4	21·5	21·9	22·3	22·4	22·4
13	22·4	22·5	22·6	21·7	20·7	20·6	21·2	21·7	21·3	21·1	21·9	21·6	22·0	22·5	22·3
14	22·5	22·4	22·2	21·5	21·3	22·0	22·5	22·3	21·7	21·9	22·4	22·5	22·8	22·8	22·5
15†	22·7	22·8	22·8	21·7	20·7	20·8	21·7	21·7	21·1	21·0	21·7	22·5	23·0	23·1	22·4
16†	22·5	22·5	22·8	22·4	22·1	22·7	23·8	23·8	22·7	22·2	22·3	22·5	22·9	22·9	22·3
17	22·8	22·9	23·1	22·5	21·8	22·0	22·3	22·2	22·0	22·1	22·4	22·3	22·8	23·3	22·7
18††	23·1	23·0	23·0	22·8	22·9	23·8	23·7	22·8	21·7	21·5	21·6	21·4	21·9	22·1	22·6
19††	23·1	22·9	22·8	22·5	22·3	22·9	23·1	22·2	20·9	**19·9**	20·0	20·6	20·9	21·2	21·1
20	22·7	22·6	22·7	22·6	22·7	23·4	24·6	**24·9**	24·1	22·3	21·3	21·2	21·9	22·1	20·8
21	22·4	22·4	22·8	22·7	22·2	22·9	24·1	24·2	22·9	21·3	20·9	20·9	21·0	21·8	21·8
22	22·6	22·4	22·2	21·7	21·9	22·2	23·8	24·2	23·9	22·9	21·4	20·4	21·4	21·6	21·5
23††	22·9	22·9	22·8	22·5	22·0	22·4	23·3	23·8	22·7	22·6	22·3	21·5	20·7	21·8	21·8
24	22·5	22·2	22·0	21·5	21·2	21·9	22·9	23·1	22·9	22·9	22·8	22·1	21·8	21·5	21·2
25	22·5	22·1	21·9	21·1	20·9	21·7	23·1	23·6	23·2	23·1	22·9	22·7	22·2	22·6	22·0
26	22·5	22·0	21·8	20·9	20·8	20·9	21·3	22·2	22·7	22·9	22·4	22·3	22·4	22·6	22·1
27	23·2	23·2	23·2	22·2	21·5	21·5	22·6	22·6	22·9	23·0	22·5	21·8	21·8	22·3	21·7
28	22·9	22·8	22·9	22·3	20·9	21·0	21·7	21·4	20·9	20·8	21·0	21·3	21·5	21·9	21·9
29††	23·6	24·0	23·7	22·8	22·0	21·7	21·7	21·5	21·5	21·2	21·9	22·3	21·3	22·1	21·1
30††	22·5	22·5	22·4	22·6	22·4	23·3	23·5	22·6	21·6	21·4	21·2	21·4	22·3	22·5	22·4
Mean .	22·5	22·5	22·4	21·9	**21·7**	22·1	**22·9**	22·8	22·2	21·8	21·8	21·9	22·2	22·4	22·1
Mean† .	22·5	22·5	22·5	22·0	**21·7**	22·4	23·3	**23·3**	22·6	22·2	22·3	22·6	22·9	22·9	22·4
Mean†† .	22·7	22·8	22·7	22·4	22·1	22·7	**22·9**	22·5	21·6	**21·2**	21·3	21·4	21·4	22·0	21·8

DECEMBER.

1	21·4	22·0	22·0	22·0	21·6	21·7	21·8	21·6	20·8	21·0	21·6	21·5	21·6	21·5	21·2
2	22·5	22·8	22·7	22·0	22·0	22·1	22·9	22·5	21·6	21·3	21·6	21·4	22·4	22·4	22·0
3	22·6	22·7	22·6	22·3	22·4	23·1	23·5	23·3	21·6	20·7	21·0	21·3	22·2	22·3	22·1
4†	22·4	22·5	22·4	22·0	22·2	22·7	22·8	22·4	22·1	21·7	21·2	21·2	22·0	22·2	22·1
5	23·0	23·0	22·8	22·1	21·9	22·1	23·1	23·4	23·1	22·7	22·1	21·8	22·5	23·0	22·4
6	22·4	22·5	22·3	21·9	22·0	23·5	24·6	24·5	23·6	23·0	22·6	22·3	22·3	22·6	22·2
7	22·8	22·4	22·7	22·1	21·3	21·9	23·1	23·2	23·1	22·3	21·9	22·0	22·4	22·5	22·1
8	22·3	22·5	22·4	21·8	21·8	23·0	23·2	24·1	24·1	23·2	22·6	22·4	22·7	22·8	22·1
9	22·9	22·9	22·5	22·0	21·1	22·0	23·1	23·7	23·7	23·2	22·7	22·7	22·7	22·7	22·5
10	22·5	22·5	22·0	21·5	21·3	22·5	23·8	24·1	24·3	23·4	23·1	23·0	23·1	23·1	22·0
11	23·1	23·0	23·0	22·2	21·0	21·0	22·2	24·0	24·1	23·4	23·1	22·7	22·4	22·9	22·4
12	23·1	22·9	22·4	21·4	21·0	22·0	23·5	24·5	24·7	24·3	23·6	23·2	23·2	23·1	22·6
13†	23·5	23·5	23·2	22·0	21·2	21·1	22·0	24·2	24·6	23·9	23·6	22·8	22·8	22·9	22·6
14†	23·7	23·5	23·2	21·9	21·1	22·0	23·4	24·5	24·6	24·4	24·2	24·0	23·7	23·5	23·0
15	23·7	23·9	23·7	22·4	21·1	21·3	23·0	24·2	24·3	23·9	23·1	22·7	23·1	23·2	22.7
16	24·6	24·4	24·2	23·0	21·9	22·3	23·5	24·6	24·7	24·8	24·5	24·2	23·9	23·6	23·1
17	23·7	23·7	23·1	22·0	21·3	21·4	23·1	24·0	23·8	24·3	24·3	24·4	23·7	23·6	22·9
18††	24·1	24·2	23·9	22·9	22·1	23·2	25·3	**25.9**	25·1	24·3	23·7	22.5	23·2	23·1	22·5
19††	24·2	24·2	23·5	23·2	22·6	22·7	22·8	22·6	22·3	21·5	21·4	21·1	22·2	22·6	21·6
20††	23·2	23·1	22·7	22·8	22·8	23·2	24·0	23·7	23·2	23·1	22·9	22·8	23·0	23·0	22·3
21	23·2	23·1	23·0	22·2	21·4	21·2	21·9	22·8	23·1	23·3	23·2	23·7	23·2	23·5	22·9
22	23·0	23·1	23·0	22·1	22·3	23·6	24·7	24·7	24·1	23·1	22·1	21·5	21·9	22·9	22·1
23††	23·5	23·6	23·1	21·9	20·8	22·4	23·4	23·5	23·3	21·8	21·1	20·6	21·5	21·3	20·9
24††	22·6	22·5	22·1	21·5	21·9	23·5	24·5	24·0	23·5	23·3	22·7	22·3	22·5	22·8	22·4
25	22·4	22·3	21·4	20·2	**19·9**	21·8	22·7	23·1	23·5	23·0	22·5	22·6	22·9	23·2	22·6
26	23·1	22·8	22·1	21·1	20.8	23·6	24·6	24·7	24·6	24·1	22·9	21·9	21·9	22·9	22·3
27†	23·3	23·3	23·0	21·6	20·3	20·8	22·8	23·4	23·2	23·2	23·3	23·3	23·7	23·4	22·9
28†	23·3	23·3	23·1	22·2	21·9	22·8	24·4	24·7	24·0	23·7	23·5	23·0	22·8	23·1	22·8
29	23·7	23·6	23·5	22·9	21·4	22·0	24·4	24·6	23·7	23·0	22·7	22·9	23·2	23·5	22·7
30	23·5	23·7	23·7	23·0	22·2	22·1	23·5	25·1	24·6	23·9	23·0	23·0	23·5	23·6	23·1
31	24·1	24·2	23·7	22·9	21·4	21·4	23·1	23·2	22·6	21·8	21·7	21·9	23·2	23·9	23·3
Mean .	23·1	23·1	22·9	22·1	**21·5**	22·3	23·4	**23·8**	23·5	23·1	22·7	22·5	22·8	22·9	22·4
Mean† .	23·3	23·3	23·1	22·0	**21.4**	21·9	22·7	**23·9**	23·7	23·4	23·2	22·9	23 0	23·0	22·7
Mean†† .	23·3	23·3	22·9	22·3	21·9	22·9	**23·9**	23·9	23·4	22·7	22·3	**21·8**	22·5	22·6	21·9

† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
22·5	22·4	22·1	21·8	21·5	21·4	21·4	21·4	21·7	22·1	20 10	21·4	7 30	22·9	1
22·5	22·6	22·6	22·4	22·3	22·0	22·1	22·5	22·7	22·1	9 14	19·9	12 52	23·5	2
22·6	22·6	22·6	22·6	22·6	22·6	22·6	22·6	22·6	22·1	8 43	20·6	12 50	23·5	3
22·3	22·6	22·4	22·2	22·2	22·3	22·3	22·6	22·6	22·5	3 10	21·5	6 48	23·5	4†
22·5	22·7	22·5	22·5	22·2	22·1	22·2	22·3	22·1	22·7	23 10	22·0	6 30	24·9	5†
22·6	22·7	22·6	22·5	22·4	22·4	22·4	22·4	22·6	22·5	3 36	21·7	5 50	23·1	6†
22·4	22·5	22·4	22·3	22·1	21·8	21·8	22·0	22·6	22·3	3 20	21·4	6 50	23·4	7
22·1	22·2	22·1	21·8	21·3	21·3	21·2	21·4	21·[illegible]	22·0	20 50	21·0	6 38	23·4	8
21·2	21·9	21·9	21·9	21·9	21·9	21·9	21·8	21·9	21·8	14 30	20·7	6 20	23·6	9
22·1	22·4	22·3	22·2	22·1	22·1	22·2	22·1	22·2	22·1	9 6	20·8	6 30	23·5	10
22·4	22·5	22·3	21·9	21·9	22·1	21·4	21·1	21·4	22·0	8 30	20·7	6 30	23·1	11
22·4	22·5	22·4	22·1	22·2	21·9	21·9	22·0	22·2	22·0	4 0	20·8	5 46	23·8	12
22·4	22·5	22·5	22·1	22·0	22·2	22·4	22·1	22·3	21·9	4 44	20·3	1 50	22·7	13
22·6	22·6	22·6	22·5	22·4	22·3	22·4	22·5	22·7	22·3	3 38	20·9	12 50	23·1	14
22·4	22·5	22·5	22·4	22·3	22·2	22·3	22·5	22·4	22·1	4 30	20·4	12 46	23·3	15†
22·3	22·7	22·6	22·5	22·5	22·5	22·5	22·8	22·8	22·7	3 10	22·0	6 20	24·0	16†
22·3	22·4	22·1	22·0	22·0	22·1	22·3	22·4	22·6	22·4	8 44	21·5	12 54	23·4	17
21·9	22·0	21·8	21·1	20·3	21·3	21·7	22·6	22·9	22·2	18 36	20·3	4 58	23·9	18††
20·7	20·9	21·4	21·5	21·6	21·8	22·1	22·5	22·6	21·7	8 56	19·6	5 20	23·3	19††
21·3	22·3	22·0	21·9	21·9	22·3	22·4	22·4	22·6	22·4	14 4	20·1	7 10	25·1	20
22·1	22·4	22·3	22·3	22·1	21·9	22·3	22·3	22·6	22·3	12 6	20·6	6 40	24·6	21
21·7	21·7	21·8	21·7	21·7	22·4	22·3	22·6	22·8	22·2	10 40	19·7	7 8	24·5	22
21·8	22·0	21·9	22·2	22·0	22·1	22·4	22·5	22·4	22·3	11 48	20·1	6 46	23·8	23††
21·6	22·0	21·9	21·9	22·0	22·6	22·4	22·3	22·5	22·2	13 58	21·1	7 14	23·3	24
21·6	22·0	22·1	22·2	22·2	22·4	22·3	22·5	22·6	22·3	3 54	20·7	6 50	22·7	25
22·1	22·4	22·9	22·6	22·6	22·7	22·7	22·8	23·1	22·3	3 44	20·5	22 50	23·3	26
21·7	22·1	22·4	22·5	22·5	22·2	22·6	22·3	22·7	22·4	4 38	21·2	8 30	23·3	27
21·4	21·5	21·4	21·7	22·1	22·2	22·4	23·3	23·3	21·9	4 38	20·4	23 54	23·7	28
21·1	21·6	20·7	21·0	21·2	21·1	21·7	22·1	22·3	21·9	17 18	20·3	1 24	24·3	29††
22·4	21·8	21·5	21·2	20·7	20·5	21·2	20·6	21·1	21·9	21 46	20·1	5 34	23·9	30††
22·0	22·2	22·2	22·0	22·0	22·0	22·1	22·2	22·4	22·2					Mean.
22·4	22·6	22·5	22·4	22·3	22·3	22·3	22·5	22·5	22·5					Mean.†
21·7	21·8	21·6	21·5	21·3	21·5	22·0	22·3	22·5	22·0					Mean.††

DECEMBER.

21·4	21·4	21·3	21·4	21·8	22·1	22·1	22·2	22·4	21·7	8 18	20·7	23 59	22·7	1
22·1	22·1	22·0	22·1	21·9	22·1	22·1	22·4	22·7	22·1	9 0	21·3	1 54	23·1	2
22·1	22·2	22·2	22·2	22·1	22·1	21·9	22·1	22·2	22·2	9 10	20·5	6 6	23·8	3
22·4	22·7	22·4	22·2	22·3	22·6	22·8	22·9	22·8	22·3	10 30	21·1	22 30	23·1	4†
22·6	22·6	22·3	22·1	22·1	22·1	22·1	22·1	22·2	22·5	4 20	21·7	7 0	23·8	5
22·3	22·7	22·7	22·4	22·1	22·0	22·0	22·1	22·3	22·6	21 0	21·7	6 30	25·0	6
22·6	22·4	22·3	21·1	21·8	21·9	22·0	22·0	22·2	22·3	4 26	21·0	7 14	23·5	7
22·3	22·7	22·5	22·3	22·1	22·1	22·2	22·4	22·5	22·6	3 33	21·1	7 30	24·3	8
22·5	22·5	22·5	22·5	22·5	22·4	22·5	22·3	22·5	22·6	4 10	21·0	7 22	23·8	9
22·8	22·8	22·6	22·8	23·1	22·8	22·9	22·6	23·1	22·8	3 56	21·2	7 42	24·6	10
22·5	22·7	22·6	22·5	22·6	22·7	23·0	23·0	22·9	22·7	4 16	20·5	7 0	24·1	11
22·6	22·9	22·9	22·6	22·6	22·8	23·0	23·1	23·3	23·0	3 54	20·7	8 2	24·9	12
22·5	22·6	22·6	22·8	22·8	22·9	23·1	23·3	23·7	22·9	4 50	20·9	7 44	24·7	13†
22·9	22·9	23·1	23·0	22·9	23·0	23·2	23·3	23·6	23·3	3 54	21·0	7 46	24·6	14†
22·7	22·9	23·2	23·2	23·3	23·5	23·7	23·8	24·2	23·2	4 22	20·7	7 54	24·5	15
23·0	23·3	23·3	23·3	23·3	23·3	23·3	23·6	23·7	23·6	4 10	21·7	7 30	25·1	16
22·8	22·8	22·9	23·0	23·1	23·2	23·2	23·7	23·7	23·3	4 10	21·0	9 50	24·6	17
22·1	21·9	21·6	21·5	21·8	22·0	21·7	22·7	23·5	23·1	18 24	20·9	7 0	26·0	18††
21·9	21·9	21·2	21·7	22·2	22·1	22·4	22·6	22·7	22·4	11 20	20·7	1 2	24·4	19††
22·7	22·8	22·8	23·0	22·9	22·7	22·9	23·2	23·2	23·0	13 54	22·1	5 56	24·2	20††
22·9	23·0	22·9	22·7	22·7	22·7	22·8	23·1	23·2	22·8	4 30	20·9	13 0	23·7	21
22·4	22·6	22·8	22·6	22·5	22·6	23·0	23·1	23·1	22·9	11 30	21·2	6 20	25·1	22
21·5	21·3	21·1	21·1	21·5	22·4	22·6	22·6	22·6	22·0	13 30	19·8	1 0	23·7	23††
22·6	22·5	22·1	22·3	22·3	22·2	22·3	22·2	22·3	22·6	3 20	21·5	6 6	24·7	24††
22·7	22·9	23·0	23·0	22·9	23·0	23·1	23·2	22·9	22·5	3 38	19·7	7 58	23·6	25
22·7	22·8	22·9	22·9	23·0	23·2	23·2	23·2	23·2	22·9	3 50	20·2	7 16	25·0	26
23·0	23·1	23·2	23·3	23·2	23·3	23·3	23·3	23·3	22·9	4 44	19·5	12 18	23·8	27†
22·6	23·1	23·2	23·2	23·2	23·2	23·2	23·4	23·6	23·2	4 10	21·6	7 6	24·9	28†
22·7	22·8	23·0	22·9	23·2	23·2	23·2	23·1	23·2	23·1	4 30	20·9	6 30	24·8	29
23·0	23·1	23·1	23·1	23·0	22·9	23·1	23·1	23·5	23·3	4 42	21·9	7 10	25·2	30
23·0	23·1	22·6	22·3	22·1	22·3	22·7	22·9	23·3	22·8	4 30	20·6	0 20	24·4	31
22·5	22·6	22·5	22·5	22·5	22·6	22·7	22·9	23·0	22·7					Mean.
22·6	22·9	22·9	22·8	22·8	22·9	23·0	23·1	23·3	22·9					Mean.†
22·2	22·2	21·8	22·0	22·3	22·4	22·5	22·8	23·0	22·6					Mean.††

*See footnote on page B-7.
†Five international quiet days.
†† Five international disturbed days.

HORIZONTAL FORCE, 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	621	624	627	629	639	660	676	683	672	662	651	642	639	637	637
2	627	627	627	624	623	643	668	680	680	674	670	662	652	646	642
3	622	620	617	611	624	647	665	678	668	651	640	628	617	616	615
4	622	619	622	626	628	636	645	646	644	635	630	629	629	631	628
5	628	627	627	632	643	654	662	660	655	647	642	640	638	634	631
6	629	628	629	630	633	639	650	653	645	638	635	634	636	637	638
7††	638	637	639	645	655	667	676	669	657	655	657	647	647	644	645
8	550	573	586	600	614	624	631	638	623	611	604	598	601	603	603
9††	609	616	622	626	629	646	660	659	649	619	607	589	600	610	612
10††	619	619	624	630	641	657	664	667	661	644	612	612	606	596	585
11	613	616	624	630	642	659	662	649	638	637	640	636	628	622	612
12	611	617	620	623	632	643	656	663	663	658	636	626	627	631	627
13	624	618	619	624	636	648	660	652	645	631	623	614	601	602	607
14	617	621	625	630	639	650	657	654	643	626	617	614	609	617	620
15†	625	627	629	639	647	661	674	675	666	652	642	635	631	631	632
16†	632	634	637	643	656	667	679	680	662	646	638	637	633	630	631
17	633	634	638	649	665	681	691	686	672	657	648	652	641	637	640
18	634	638	644	654	664	687	698	690	682	672	661	647	636	635	635
19	630	631	633	638	649	660	672	685	689	679	666	648	637	632	631
20	625	630	636	646	660	670	676	685	681	674	664	656	648	637	626
21	619	624	627	634	641	655	669	674	671	664	653	640	628	615	611
22	597	601	605	616	630	645	656	658	660	650	640	627	619	615	616
23†	615	616	618	624	629	635	641	642	639	638	639	637	632	628	628
24	625	627	630	635	646	662	671	673	669	660	653	646	637	633	632
25†	628	626	626	627	637	655	669	673	673	663	654	644	637	637	638
26	634	637	643	651	661	678	700	710	712	683	659	649	647	647	648
27††	637	640	639	644	663	679	692	687	671	684	659	636	601	605	625
28	593	594	600	614	634	655	665	675	663	651	637	627	609	591	581
29	589	593	594	588	599	617	633	643	638	627	616	608	602	599	607
30††	615	619	626	631	644	657	672	676	671	661	647	635	631	628	624
31	621	622	625	631	641	652	664	669	667	653	636	630	627	626	625
Mean . .	619	621	624	630	640	654	666	669	662	652	641	633	627	624	624
Mean † .	627	628	630	634	643	657	670	672	663	653	645	639	635	632	633
Mean †† .	611	615	620	626	638	654	667	667	657	650	634	622	617	617	620

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1	625	622	622	639	651	664	675	674	663	654	642	631	621	621	617
2	618	620	621	626	637	652	663	673	670	661	646	636	630	626	623
3††	662	629	629	594	562	615	594	579	587	597	580	571	578	577	571
4	533	545	553	566	580	588	594	597	601	599	581	566	548	562	566
5††	580	581	582	587	598	603	595	609	621	623	617	604	596	597	598
6	587	594	598	614	624	631	643	640	635	626	603	584	589	591	590
7	601	604	611	617	627	639	641	650	644	631	618	608	606	613	612
8†	607	610	612	617	627	640	647	647	644	638	630	622	617	617	621
9††	633	638	626	630	644	654	656	660	647	637	634	635	617	604	589
10	583	587	596	608	616	639	632	631	629	628	625	618	604	590	592
11	600	603	607	615	630	648	664	654	648	639	629	625	616	609	608
12	612	615	619	628	640	654	666	671	659	642	635	625	623	626	625
13	600	603	607	617	635	654	668	679	676	676	650	627	608	614	611
14	614	620	616	618	634	653	657	661	653	639	629	626	624	622	622
15	605	601	604	608	617	635	654	658	652	641	632	629	622	617	614
16	609	613	617	621	632	650	665	667	664	659	643	623	599	587	584
17	619	621	623	627	642	660	676	687	684	667	658	641	635	623	603
18	619	616	618	629	644	660	667	670	667	656	644	633	621	619	621
19††	625	638	645	654	673	679	694	708	691	674	661	648	627	607	608
20	637	640	646	659	663	682	690	671	667	663	657	660	650	645	642
21††	627	630	645	657	696	707	712	712	698	684	673	662	654	649	640
22	633	638	639	642	658	669	679	683	672	659	642	625	605	594	588
23†	619	618	621	628	641	658	669	673	671	658	647	639	637	638	636
24†	628	628	625	631	655	674	686	699	701	680	669	663	657	650	641
25	632	632	636	645	662	677	701	709	701	689	674	660	664	665	656
26†	633	634	636	646	667	686	700	702	694	679	662	647	631	628	633
27†	626	627	628	641	662	672	677	686	685	679	662	649	637	626	612
28	631	631	631	640	659	680	698	708	698	682	667	658	650	646	634
Mean .	614	616	618	625	638	655	663	666	661	652	640	629	620	617	613
Mean† .	626	627	627	635	653	668	678	683	681	668	655	644	635	632	628
Mean†† .	610	609	613	613	624	643	642	647	644	640	630	623	614	608	604

†Five international quiet days.

††Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
630	627	626	625	625	624	626	625	625	639	7 10	683	0 0	621	1†
639	632	628	628	625	620	616	615	622	640	7 24	683	22 30	613	2
611	610	611	616	621	621	621	621	621	628	7 0	680	16 22	609	3
627	623	620	628	629	628	627	629	629	630	7 24	648	17 4	618	4
627	625	623	629	628	631	331	633	631	637	5 50	662	17 12	622	5
638	635	634	633	636	634	632	637	641	637	6 38	654	0 42	627	6
633	609	576	550	**538**	578	560	554	551	620	6 12	677	18 54	**528**	7††
602	599	598	597	599	601	602	602	605	**604**	6 54	640	0 0	570	8
612	612	613	619	615	627	596	601	611	619	5 56	667	21 21	584	9††
583	587	591	594	594	593	604	614	612	617	6 34	671	13 49	578	10††
603	591	606	611	609	598	598	608	615	623	6 10	664	16 0	588	11
611	602	606	618	620	625	622	620	628	629	7 50	667	16 30	596	12
612	614	618	616	615	616	619	617	615	623	5 52	661	12 30	596	13
622	621	620	622	623	622	622	622	626	627	6 12	661	11 56	608	14
630	625	623	623	625	625	625	628	630	637	6 20	677	17 30	621	15†
629	628	628	629	632	632	631	632	633	641	6 32	684	16 6	627	16†
640	638	635	635	638	636	633	630	633	648	6 18	694	22 2	629	17
631	628	628	629	633	634	632	631	630	648	6 6	699	16 12	626	18
625	621	619	622	621	627	628	626	629	641	7 42	691	16 30	618	19
607	595	603	602	598	597	609	618	621	636	7 18	687	15 54	592	20
618	614	604	591	588	595	595	602	593	625	6 50	677	18 50	578	21
616	616	615	614	615	615	610	610	612	624	8 4	660	0 18	597	22
622	618	618	619	618	619	622	623	625	627	6 34	643	0 6	614	23†
629	626	622	621	622	622	622	626	628	638	6 24	674	18 0	620	24
635	631	629	628	627	630	631	633	633	640	8 0	675	1 56	625	25†
641	639	638	637	635	635	636	637	637	**654**	8 4	**728**	0 0	634	26
618	604	597	595	587	584	577	582	587	628	8 46	699	21 24	574	27††
578	577	579	587	582	581	581	582	586	609	6 50	679	20 32	575	28
610	610	607	607	607	607	606	607	613	610	6 54	646	2 52	585	29
620	599	577	591	594	605	608	610	613	627	6 36	680	17 18	571	30††
625	622	623	622	623	623	622	623	625	633	7 20	673	0 30	621	31
620	615	**613**	614	614	616	614	616	618	630					Mean.
628	625	623	**623**	624	624	625	626	626	637					Mean.†
617	606	596	594	**592**	606	597	602	606	622					Mean.††

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611	615	617	616	616	615	615	615	617	631	6 10	680	15 0	608	1
620	619	618	618	618	619	622	629	659	635	23 39	689	19 0	617	2
565	565	519	**474**	480	506	521	529	530	**565**	0 12	665	18 40	**441**	3††
572	571	571	569	571	577	572	575	574	571	8 22	602	0 2	531	4
594	589	594	595	587	605	611	592	587	598	8 22	630	0 34	577	5††
584	589	593	595	595	599	607	598	599	605	5 54	647	10 46	579	6
605	607	603	604	604	605	613	611	605	616	6 40	652	0 36	599	7
619	616	616	616	613	610	610	610	618	623	6 20	652	20 30	606	8†
577	544	537	544	535	547	539	555	577	602	6 52	667	18 40	530	9††
584	592	599	605	606	597	595	597	601	607	5 18	646	14 36	579	10
611	611	611	611	610	621	619	618	614	622	5 52	674	0 0	599	11
619	612	597	597	603	587	599	616	601	623	6 40	673	20 25	582	12
625	623	613	607	615	623	618	616	608	628	8 46	689	0 10	600	13
621	619	608	589	580	602	596	586	583	619	7 10	663	19 12	577	14
604	594	594	603	611	614	607	610	609	618	7 10	660	16 40	587	15
577	573	587	606	609	609	614	613	617	619	6 54	669	15 52	571	16
596	597	599	604	614	614	613	620	623	631	6 45	691	15 50	593	17
625	620	619	621	628	627	630	640	636	635	7 18	675	1 14	614	18
612	585	561	580	607	611	610	613	629	635	6 42	714	16 54	550	19††
644	623	622	616	619	624	627	634	633	646	5 28	712	17 56	609	20
626	617	619	623	633	645	621	627	630	654	5 34	**731**	16 10	615	21††
594	601	605	613	615	616	614	614	616	629	6 52	685	14 14	586	22
632	629	626	625	625	625	625	626	627	637	7 20	679	0 44	619	23†
638	637	632	627	629	633	633	633	633	649	8 16	711	1 58	625	24†
648	643	639	635	633	632	629	630	630	**655**	7 8	720	21 30	629	25
631	628	625	626	623	623	626	627	626	646	6 50	707	18 36	624	26†
616	620	617	620	624	624	627	627	630	641	6 42	688	13 58	611	27†
634	628	618	613	607	610	616	614	618	644	7 2	715	19 14	608	28
610	606	602	**602**	604	608	608	610	612	625					Mean.
626	625	622	621	**620**	621	621	621	623	639					Mean †
599	585	572	**571**	577	594	592	596	605	611					Mean.††

*The daily mean value of horizontal force derived from 24 hourly values has been corrected for progressive change by adding 1/48th of the difference between the values at the terminal and initial hours.

†Five international quiet days.

††Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1††	617	619	619	623	640	657	677	683	681	696	677	642	622	629	630
2	574	578	588	591	612	632	648	649	637	623	608	593	590	595	581
3†	601	601	604	611	626	641	652	659	654	644	632	627	623	623	624
4	625	627	629	636	652	668	678	683	676	664	653	645	642	650	655
5††	631	629	625	630	651	670	664	673	695	685	624	559	537	551	522
6	583	581	600	612	630	642	651	659	659	642	630	625	620	624	623
7†	621	625	632	647	667	681	688	686	680	669	657	648	642	641	639
8†	636	636	638	646	659	669	677	678	670	659	651	647	648	649	645
9	636	639	639	645	652	668	679	689	685	675	660	649	651	650	642
10	632	639	648	659	676	697	706	711	705	692	679	669	666	661	653
11†	646	652	653	657	674	698	710	711	703	692	680	669	666	664	659
12†	649	651	656	666	682	700	713	719	713	700	685	671	665	662	659
13	656	659	661	670	689	705	722	**726**	725	714	699	683	674	672	670
14	631	626	609	608	613	634	652	655	657	651	634	611	618	623	623
15††	621	624	633	644	661	678	675	665	642	627	614	570	529	**501**	510
16	607	618	620	629	639	659	677	670	661	653	645	637	632	630	626
17	621	621	624	633	650	664	679	682	673	666	652	638	635	631	627
18	630	628	629	637	648	661	670	667	663	655	643	638	644	647	645
19	633	631	630	641	655	673	688	693	687	676	662	654	651	647	644
20	643	642	643	650	663	678	692	693	690	679	669	661	652	650	645
21	641	643	647	660	679	697	705	702	698	691	681	670	665	663	661
22	654	654	662	678	703	718	715	722	721	712	687	646	579	539	564
23	623	626	630	642	655	678	691	697	682	664	649	636	632	625	633
24	632	633	632	642	659	678	686	688	681	670	658	647	648	643	633
25	638	636	637	648	669	692	705	698	677	659	659	660	652	648	642
26	641	643	642	649	667	690	700	701	687	677	662	652	650	647	639
27††	645	645	634	649	658	685	706	710	703	692	667	631	600	575	556
28	602	605	614	629	654	670	685	673	657	648	630	630	628	629	619
29	622	620	625	636	655	677	688	684	677	667	660	652	647	643	639
30	633	632	630	636	658	688	706	709	702	693	679	666	661	659	659
31††	642	645	642	656	687	673	654	602	564	560	569	582	574	561	566
Mean . .	628	629	631	641	658	675	**685**	685	678	668	653	639	630	627	624
Mean† .	636	638	640	649	665	681	691	**693**	686	674	662	653	649	648	644
Mean†† .	611	614	614	625	647	662	**666**	658	650	648	627	595	571	565	**560**

APRIL.

1	593	590	601	620	637	657	671	672	666	648	635	627	622	618	618
2	615	617	617	626	645	672	687	693	692	671	659	613	615	623	625
3	622	616	618	613	626	648	664	662	643	624	608	599	594	592	601
4	617	617	621	631	648	672	685	675	675	659	647	643	639	630	621
5	618	619	626	637	660	686	701	698	688	677	665	656	650	643	641
6	643	645	649	658	675	697	717	723	715	702	687	671	657	655	651
7	657	661	666	678	701	724	735	733	724	710	699	689	684	674	665
8†	674	674	678	686	697	717	718	712	703	694	684	674	670	670	669
9†	669	669	669	674	694	718	727	722	713	700	690	683	675	672	669
10†	661	664	669	683	704	725	732	730	725	711	698	686	678	671	668
11	655	646	641	645	646	675	689	699	698	687	676	661	651	652	655
12	656	658	659	663	681	699	710	710	706	714	714	715	698	660	615
13	619	629	626	635	649	669	683	671	660	653	647	643	638	640	638
14†	632	635	641	651	668	678	681	684	680	671	661	651	645	643	640
15	636	640	646	662	683	700	708	702	693	684	676	671	664	655	649
16†	653	655	661	677	700	718	724	718	709	695	680	663	651	650	648
17	657	661	663	672	693	713	725	721	716	703	699	689	678	671	665
18	657	658	650	653	680	695	699	699	699	693	682	670	647	646	643
19	651	653	658	673	703	715	721	714	703	693	685	678	671	665	654
20	653	654	657	667	690	709	719	712	703	689	676	664	657	657	653
21	657	653	651	662	669	677	688	687	683	671	667	662	648	645	645
22	645	647	648	659	680	698	708	709	700	694	683	671	663	658	655
23	655	654	660	672	698	715	720	715	707	697	689	682	673	670	665
24††	647	653	663	690	723	742	**744**	737	717	697	681	665	667	675	664
25††	546	555	514	529	569	605	631	635	636	605	589	579	574	575	570
26††	581	576	594	618	633	676	674	671	665	658	655	646	635	623	620
27††	465	471	475	490	531	551	568	581	573	564	563	558	553	547	554
28††	559	552	520	508	509	503	536	516	471	451	471	457	**426**	465	482
29	553	557	566	583	611	636	639	633	623	605	601	598	588	584	583
30	592	590	584	594	620	641	656	654	645	631	609	599	596	585	588
Mean .	**625**	626	626	637	657	678	**689**	686	678	665	656	645	637	634	630
Mean† .	657	658	663	673	692	711	**716**	713	706	694	683	671	664	661	659
Mean†† .	549	553	**545**	560	587	610	**627**	625	609	592	591	580	570	578	580

† Five international quiet days.

†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.		H. M.	γ	
626	620	615	615	628	612	581	568	591	631	8 42	710	22 13	563	1††
573	558	555	570	592	598	597	599	599	598	6 16	657	17 2	554	2
621	621	619	618	618	616	617	617	621	625	7 16	662	0 0	600	3†
632	631	628	627	624	624	626	625	628	643	7 14	685	18 48	625	4
544	567	569	567	572	587	586	595	586	605	7 32	703	14 4	515	5††
620	618	615	615	615	616	616	617	619	623	7 6	667	1 16	581	6
636	631	630	630	630	630	629	632	633	646	6 4	689	0 0	624	7†
642	641	637	635	635	635	638	640	638	648	6 48	681	17 56	635	8†
635	636	635	633	632	628	621	623	627	647	6 50	693	21 20	621	9
653	645	645	643	643	641	641	641	639	662	6 30	713	0 10	633	10
654	647	644	646	646	641	637	643	647	664	7 0	714	21 18	637	11†
654	651	651	651	649	648	648	649	651	669	7 6	721	21 10	649	12†
664	655	649	645	645	649	646	631	624	672	7 44	730	23 18	617	13
621	613	617	619	613	613	608	610	616	624	8 8	662	2 15	601	14
541	565	574	576	583	589	593	598	603	600	5 22	681	12 48	495	15††
621	620	613	603	602	612	615	622	621	631	6 20	683	19 10	598	16
622	622	622	623	629	626	622	636	628	639	6 24	688	21 6	620	17
640	633	629	629	632	636	632	638	635	642	6 1	672	17 30	627	18
642	641	637	633	635	635	640	645	644	651	6 34	699	1 30	629	19
641	636	632	632	634	634	631	638	640	653	6 40	695	21 20	630	20
653	647	643	654	660	657	660	653	659	667	6 14	706	17 20	641	21
577	595	593	597	599	609	619	611	620	640	4 48	727	13 4	532	22
631	627	626	633	631	628	626	627	629	643	6 40	701	13 20	621	23
630	632	627	629	639	636	630	635	639	647	6 50	690	17 0	628	24
641	639	639	639	637	636	638	640	639	653	6 16	709	1 42	635	25
640	638	640	640	644	645	656	657	650	657	6 34	705	16 10	637	26
542	557	587	591	597	601	599	604	610	626	6 22	715	15 8	537	27††
616	617	620	623	620	615	619	629	628	632	5 32	690	0 0	602	28
636	635	635	634	633	632	631	633	637	646	5 50	690	1 20	620	29
664	658	651	648	644	637	638	643	642	660	7 6	711	1 42	629	30
565	552	544	573	563	568	563	569	575	694	4 4	696	16 58	541	31††
622	621	620	622	623	624	623	625	626	640					Mean.
640	637	634	633	633	631	630	632	634	651					Mean †
569	579	586	594	600	605	599	603	612	611					Mean††

APRIL.

618	614	614	612	610	615	618	617	617	626	6 40	675	0 36	589	1
624	625	623	618	602	590	603	605	606	632	7 36	705	20 20	586	2
604	598	599	607	605	608	620	618	627	617	6 28	675	13 0	591	3
623	615	614	612	607	611	608	612	618	633	5 50	690	19 0	606	4
637	634	636	634	635	636	637	640	641	650	6 24	706	0 20	619	5
657	655	655	656	655	654	655	656	656	669	6 40	729	0 8	643	6
661	658	660	656	657	663	664	665	673	682	6 26	738	16 2	653	7
664	663	663	663	664	665	665	665	664	679	5 10	727	16 48	663	8†
665	663	662	662	659	658	657	658	660	679	6 10	730	21 30	659	9†
668	665	663	660	660	660	661	659	657	681	5 40	736	23 59	656	10†
654	656	654	647	652	652	651	651	655	660	7 52	703	1 52	640	11
587	567	567	573	587	594	629	620	620	649	9 12	729	17 34	563	12
636	630	628	627	623	625	625	632	631	640	6 30	688	0 8	618	13
639	637	636	633	629	626	627	629	632	648	6 50	687	20 10	627	14†
642	649	640	641	643	641	646	648	652	662	5 46	711	17 42	637	15
645	644	640	635	640	647	651	652	654	667	5 30	726	17 48	636	16†
665	665	657	657	658	655	647	651	653	677	5 44	730	21 22	644	17
640	638	637	639	639	643	643	645	646	660	5 24	709	16 30	637	18
656	659	657	653	653	663	657	647	647	672	5 48	725	22 16	643	19
649	649	647	649	653	654	653	653	654	668	6 20	723	17 4	648	20
641	641	642	640	640	640	641	642	642	655	6 32	696	19 42	637	21
654	650	655	654	652	650	650	648	652	666	6 52	713	0 0	*645	22
660	655	654	652	651	651	651	647	645	672	5 50	722	23 10	644	23
670	671	665	673	671	635	621	617	570	671	6 38	747	23 54	529	24††
568	600	597	524	596	585	585	587	596	585	19 34	686	2 12	503	25††
620	618	623	644	662	614	607	600	526	624	18 56	732	23 50	457	26††
552	549	549	553	576	581	576	573	575	549	19 28	604	0 0	458	27††
465	500	501	557	541	538	542	550	552	507	17 50	575	11 51	406	28††
581	583	591	593	596	591	604	597	593	596	5 18	643	0 14	551	29
585	581	577	583	595	590	589	592	595	603	6 12	662	17 16	575	30
628	628	627	629	630	628	629	629	627	643					Mean.
657	655	653	651	651	652	653	653	654	671					Mean.†
577	591	590	609	616	596	593	594	572	587					Mean.††

*See note on page B—19.
†Five international quiet days.
††Five international disturbed days.

(Averages for sixty minutes centred at the full hour of Greenwich mean time.)

MAY. 37000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	593	582	577	585	599	621	638	641	635	623	610	602	607	603	606
2	615	616	624	636	645	664	679	676	673	667	652	640	630	627	625
3	623	622	623	629	644	666	674	669	662	660	654	650	644	637	629
4††	633	627	622	628	641	650	670	683	681	676	665	656	643	643	639
5††	590	595	587	571	557	559	551	562	560	553	545	528	529	529	534
6†	591	590	594	603	623	647	665	675	670	661	651	639	626	616	611
7†	619	621	628	647	667	683	695	693	680	668	656	649	636	633	639
8	637	636	643	661	677	687	692	690	680	667	657	650	641	635	635
9	649	655	665	676	697	708	711	711	697	676	653	644	628	602	595
10	637	636	649	664	671	686	682	678	672	663	655	653	650	648	640
11	635	636	630	638	654	659	668	671	665	654	633	617	608	607	607
12	631	635	639	653	669	681	691	693	688	685	675	663	661	661	662
13	652	654	664	679	699	721	743	731	721	709	690	675	665	656	653
14	652	653	658	667	679	700	720	719	706	701	694	681	665	661	651
15	640	644	650	665	685	706	715	709	703	693	680	667	651	641	643
16	643	651	649	657	675	698	706	702	696	684	670	653	643	637	639
17	644	646	652	663	632	692	702	699	696	689	677	664	654	650	647
18†	649	652	664	685	706	728	735	729	722	707	692	675	666	661	656
19	647	649	658	672	693	701	701	697	684	663	647	635	631	627	630
20†	634	638	647	662	678	696	711	711	703	691	672	658	649	644	642
21	646	647	649	656	675	683	690	698	694	687	679	671	662	656	654
22	651	650	655	664	674	691	705	709	702	697	693	679	665	654	649
23†	656	661	670	683	695	702	704	705	702	698	689	676	665	654	649
24	643	651	663	679	696	708	713	713	705	696	682	671	664	662	659
25	652	652	659	661	677	695	714	719	696	671	651	622	625	627	625
26	636	631	633	641	653	660	673	659	651	646	646	646	640	633	629
27††	631	639	651	660	669	683	694	691	689	670	664	658	648	632	629
28††	627	611	611	621	608	628	621	606	611	620	598	564	574	572	560
29††	603	605	602	608	603	608	608	618	630	615	608	602	602	607	608
30	624	623	628	642	654	680	692	692	683	670	646	630	622	613	611
31	637	629	645	658	661	681	692	691	685	671	660	650	644	641	638
Mean . .	633	633	638	649	660	677	686	685	679	669	656	644	637	631	629
Mean† .	634	636	644	659	677	694	705	705	697	686	673	660	648	641	639
Mean†† . .	612	611	610	614	612	623	626	630	633	626	615	601	599	597	595

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1	641	641	640	638	654	669	677	680	674	669	662	649	646	637	627
2	640	645	654	662	674	687	704	702	695	686	673	652	642	640	641
3	649	651	662	669	678	693	704	704	695	692	685	675	668	662	659
4	658	663	675	689	706	724	729	731	726	713	693	679	670	664	663
5††	661	658	655	662	680	690	698	690	675	657	655	656	643	624	624
6††	619	610	626	627	618	599	595	583	581	566	548	541	537	527	534
7	604	612	613	625	636	649	659	662	661	653	640	628	613	603	593
8	620	628	633	637	646	660	666	670	663	659	653	644	639	637	639
9†	642	640	649	669	698	709	715	715	707	695	673	652	637	638	642
10	655	658	670	691	711	751	783	769	741	714	701	682	667	662	654
11†	649	654	665	685	705	720	724	711	698	683	673	666	660	657	651
12†	652	654	668	684	697	711	723	726	717	707	695	679	669	658	658
13††	657	657	666	681	696	707	721	728	725	729	690	641	614	612	608
14	636	644	652	665	682	701	717	694	695	690	673	666	659	655	653
15	653	656	663	677	687	704	722	705	704	700	686	668	656	656	654
16	651	649	658	669	686	692	700	705	708	701	686	673	666	665	662
17	658	651	659	675	695	711	721	713	713	705	682	662	648	642	647
18	650	653	661	676	696	717	721	711	698	678	663	653	651	653	643
19†	649	654	668	686	702	717	724	720	713	701	683	667	657	652	651
20††	657	675	678	693	721	732	726	717	703	692	683	678	661	647	647
21	624	623	629	639	660	679	695	691	691	680	663	647	637	638	637
22	634	642	653	666	682	699	709	717	710	700	684	657	651	648	636
23	631	635	644	657	672	687	694	700	698	684	671	663	661	653	652
24	651	661	667	690	719	737	748	743	721	696	685	671	658	646	638
25	641	641	650	672	706	725	724	706	687	668	647	633	633	631	628
26†	645	648	659	679	698	705	710	709	697	679	666	657	652	650	647
27††	649	653	662	685	703	723	744	732	716	711	705	679	666	655	659
28	623	630	642	643	648	658	663	678	683	669	652	646	637	637	634
29	640	640	641	650	659	677	688	691	697	687	672	655	644	646	647
30	646	649	657	665	677	693	709	715	719	711	698	683	670	660	658
Mean . .	643	646	654	667	683	698	707	704	697	686	672	657	6[illegible]	642	639
Mean.† . .	651	653	664	683	703	715	721	718	708	694	679	664	65[illegible]	651	649
Mean†† . .	635	638	646	659	675	682	691	684	675	667	654	638	62[illegible]	614	617

†Five international quiet days.
††Five international disturbed days.

(Averages for sixty minutes centred at the full hour of Greenwich mean time.)

MAY. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
609	608	608	608	616	613	614	614	610	610	7 20	643	1 54	573	1
620	620	618	618	618	614	613	616	624	635	6 16	686	20 10	614	2
627	629	633	628	621	620	622	621	623	638	5 50	678	19 34	619	3
635	633	641	648	624	613	622	607	603	640	7 58	687	23 59	594	4††
527	524	556	567	572	576	580	585	588	559	1 18	604	15 42	507	5††
609	611	611	613	616	617	618	618	618	625	7 18	677	1 14	591	6†
640	637	634	632	630	628	632	636	633	647	6 8	698	0 0	620	7†
634	635	639	640	641	643	643	644	643	652	6 38	695	14 46	634	8
605	607	612	615	619	635	626	623	628	647	6 38	717	13 36	586	9
628	628	622	626	626	633	627	630	630	647	5 0	692	17 10	622	10
606	607	627	628	625	625	626	627	629	633	6 50	676	14 30	607	11
659	654	652	647	649	651	651	649	649	661	6 56	698	0 0	633	12
649	643	643	646	648	648	648	648	650	672	6 6	751	16 24	642	13
653	650	641	634	632	641	643	643	640	666	6 32	728	18 44	630	14
642	642	638	641	642	645	645	645	645	662	5 34	721	16 42	639	15
638	630	633	641	638	639	642	642	643	656	6 30	714	16 0	630	16
644	648	646	648	647	647	648	648	648	660	6 2	706	15 0	644	17
653	648	645	646	648	649	643	644	646	673	5 34	741	21 30	641	18†
633	633	631	633	632	633	632	632	633	651	5 36	709	13 30	627	19
642	640	641	641	641	642	641	641	644	659	6 30	715	0 0	635	20†
656	663	662	658	656	650	650	654	652	665	7 14	701	0 12	646	21
649	649	652	651	650	651	653	653	653	667	7 10	711	16 4	648	22
647	644	641	637	635	634	637	641	641	665	7 12	709	19 46	633	23†
658	658	659	659	662	662	660	651	652	672	6 20	714	0 0	644	24
625	630	628	626	623	621	627	642	638	650	6 40	723	11 12	616	25
633	631	630	629	629	626	634	631	629	639	6 0	678	20 8	625	26
635	626	623	620	619	625	625	616	617	646	6 42	697	22 42	614	27††
564	564	577	580	592	597	601	607	617	597	5 3	637	13 48	552	28††
610	617	616	615	613	616	623	630	621	612	21 40	637	0 28	593	29††
614	617	616	620	621	627	627	627	638	639	6 36	697	14 20	611	30
637	635	634	636	637	637	638	634	635	650	6 30	696	1 18	627	31
628	628	629	630	630	631	632	632	633	645					Mean.
637	635	633	632	631	631	631	633	633	654					Mean.†
595	594	605	609	607	609	614	613	614	611					Mean††

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628	630	631	635	633	641	636	637	639	646	6 42	683	14 20	625	1
642	640	642	640	641	644	640	650	651	658	6 10	708	16 10	638	2
658	654	651	651	654	654	655	655	657	668	6 30	714	0 22	648	3
665	654	651	662	667	663	661	662	661	681	7 14	737	17 16	648	4
624	624	619	615	603	616	621	630	632	645	5 52	704	19 16	597	5††
546	552	563	585	588	591	605	605	602	581	2 28	639	13 2	526	6††
590	592	599	606	608	607	611	612	617	621	7 20	667	15 10	587	7
637	637	637	636	642	639	634	629	630	643	6 50	674	0 0	621	8
642	643	643	644	645	646	647	650	652	663	6 40	721	12 20	636	9†
652	651	648	647	646	645	644	641	645	680	5 54	801	22 20	642	10
648	649	652	649	649	649	649	649	652	669	5 48	732	14 40	648	11†
655	653	652	650	652	653	653	652	655	674	6 40	730	18 0	651	12†
618	624	625	620	625	628	631	633	634	657	8 47	749	13 56	607	13††
650	650	652	653	654	649	653	649	652	665	6 10	725	0 0	637	14
652	650	653	653	654	653	656	657	656	670	6 2	736	0 24	652	15
658	657	655	654	657	658	657	661	659	670	7 56	713	0 30	645	16
649	647	648	649	648	653	648	646	650	667	5 58	733	12 34	641	17
637	645	646	647	653	653	652	651	650	665	6 8	727	14 48	635	18
652	653	657	657	656	653	651	653	656	672	6 30	730	0 22	652	19†
649	643	635	624	623	625	630	631	628	666	5 4	739	18 52	619	20††
633	633	637	642	640	640	642	637	636	649	5 18	702	1 4	623	21
640	634	631	638	639	634	631	630	631	658	7 14	726	21 14	628	22
648	648	647	649	651	654	654	652	652	661	7 34	705	0 0	632	23
638	635	642	643	641	642	647	646	642	671	6 14	756	15 36	635	24
621	623	631	636	638	639	641	642	646	655	5 40	735	15 0	623	25
647	647	647	647	647	647	648	649	650	664	6 30	715	0 16	647	26†
653	658	640	628	646	629	636	625	624	669	5 52	753	18 6	620	27††
632	633	637	637	636	638	639	640	642	645	7 50	690	0 0	625	28
644	645	645	647	648	647	649	649	649	657	7 56	701	1 30	640	29
659	657	655	654	652	658	651	653	656	671	7 50	725	0 14	647	30
639	639	639	640	641	641	642	643	644	659					Mean.
648	648	649	648	648	647	647	648	650	668					Mean.†
622	625	622	621	625	627	635	636	637	644					Mean††

*See footnote on page B-19.
†Five international quiet days.
††Five international disturbed days.

HORIZONTAL FORCE, 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	657	652	657	659	662	672	676	681	691	692	686	676	666	654	632
2	642	643	653	666	677	697	706	706	706	699	689	675	665	657	654
3†	647	648	647	654	667	682	695	696	695	694	684	673	662	655	652
4	661	668	676	689	705	714	719	719	718	713	702	691	677	671	672
5	686	691	693	702	717	737	743	752	739	729	706	687	674	662	653
6	692	691	682	690	695	703	711	709	708	707	701	690	657	632	620
7	639	645	653	660	676	691	699	714	711	701	679	673	658	657	654
8†	653	657	668	685	705	719	726	731	727	709	688	676	670	669	664
9	665	668	678	692	717	728	738	734	727	716	700	686	674	664	665
10	653	642	661	654	658	660	665	676	684	680	674	662	652	645	640
11	650	656	666	680	694	705	716	717	707	697	691	674	663	657	653
12	641	644	658	681	699	708	709	709	699	687	680	671	664	662	659
13	658	659	670	686	701	720	738	748	748	740	726	707	687	668	660
14††	662	672	680	693	704	721	724	713	696	680	665	646	627	602	578
15	623	627	646	659	677	704	715	720	716	703	677	659	647	637	633
16	635	639	649	666	689	714	728	731	727	715	704	689	671	654	656
17	654	655	670	691	713	738	753	750	734	720	709	695	680	677	673
18	658	659	668	680	699	718	727	719	709	702	690	684	679	680	680
19††	683	681	682	693	702	718	723	720	719	714	707	689	677	693	709
20††	643	660	665	680	673	673	704	735	721	707	697	689	681	667	660
21	664	670	677	689	713	726	736	729	723	700	687	670	661	660	655
22††	658	654	648	642	660	667	669	650	631	713	591	595	595	580	578
23	619	625	631	644	659	680	693	691	682	680	665	637	625	620	622
24††	645	633	636	620	643	666	670	669	660	641	613	590	582	581	590
25	626	636	649	675	687	702	717	717	707	687	655	637	627	629	629
26	635	639	647	660	674	698	718	715	702	697	688	658	641	632	624
27†	645	649	664	677	697	715	728	723	710	694	676	662	658	658	656
28†	647	653	661	674	696	715	724	720	702	680	670	664	662	661	657
29†	653	654	661	676	697	715	726	722	712	702	690	678	668	661	657
30	655	660	669	677	689	707	718	719	711	697	688	679	678	682	692
31	665	669	677	692	709	721	726	731	723	715	698	688	678	669	665
Mean . .	652	655	663	674	689	704	714	715	708	697	683	669	658	651	648
Mean† . .	653	655	663	676	695	712	722	720	711	697	682	671	664	661	657
Mean†† .	647	649	652	656	668	682	692	693	681	668	652	641	632	625	625

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1	669	671	675	682	696	715	730	728	729	708	692	685	675	667	665
2††	663	665	667	674	668	643	609	582	554	531	537	547	558	558	537
3††	600	603	610	623	637	642	647	670	688	667	645	632	622	625	626
4††	625	608	623	633	639	645	655	657	653	645	645	631	620	615	611
5	635	645	643	655	672	689	695	695	690	682	667	655	650	649	648
6	636	637	643	659	689	712	719	713	701	693	674	653	638	635	640
7	657	665	672	689	717	735	733	728	719	701	681	665	644	642	645
8	645	648	657	670	687	700	710	707	697	680	665	653	645	646	649
9	647	649	657	671	696	717	730	730	722	700	689	678	665	658	658
10	653	653	661	675	698	717	723	715	706	694	681	668	657	652	648
11	652	656	664	681	699	714	718	715	709	701	690	681	678	678	672
12	675	674	681	699	717	735	743	749	743	728	712	696	685	680	678
13†	677	672	670	675	697	721	739	743	728	711	696	685	680	678	676
14	674	675	684	703	725	744	752	750	742	727	711	695	684	677	673
15	674	672	675	687	696	699	699	697	698	690	682	672	662	661	658
16†	656	658	665	675	693	708	715	715	712	702	689	675	669	666	663
17	663	663	665	678	690	699	704	703	700	696	691	679	672	670	667
18	660	664	663	669	685	700	713	710	703	691	680	678	678	679	678
19	673	671	670	682	695	705	715	718	712	707	700	691	684	681	677
20	668	672	677	686	705	721	730	730	726	718	705	695	689	689	685
21	664	667	671	684	700	711	714	713	710	697	687	677	671	668	669
22††	681	680	680	705	741	711	693	655	621	495	459	468	472	499	504
23	575	580	590	605	611	620	617	620	617	612	609	613	613	613	609
24†	621	621	627	638	651	664	674	683	683	670	656	648	640	635	631
25†	634	632	632	641	658	669	689	706	710	703	692	680	665	656	652
26	664	660	660	666	675	686	700	714	711	699	694	686	675	668	662
27††	659	663	670	687	708	714	726	724	714	702	687	669	657	653	646
28	645	638	640	660	684	709	714	715	709	700	675	649	629	628	639
29	648	646	645	652	679	700	714	717	714	692	669	661	653	654	655
30†	653	652	652	663	678	691	702	707	706	697	685	672	663	662	664
31	663	662	665	674	694	713	727	733	726	716	705	691	675	677	675
Mean . .	652	652	657	669	687	698	705	705	699	682	669	659	651	649	647
Mean† . .	654	652	653	662	679	694	707	713	710	698	685	673	663	659	656
Mean†† .	631	630	637	654	669	662	659	651	642	603	592	588	585	591	587

† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
639	645	646	647	647	651	647	644	643	659	9 0	697	14 18	627	1
649	643	641	645	648	654	645	643	644	665	7 36	714	16 38	643	2
653	653	654	656	655	655	654	655	658	665	6 46	702	0 32	649	3†
668	669	669	676	673	673	675	678	680	686	8 16	725	0 0	664	4
667	680	683	682	688	690	689	693	695	697	6 50	758	13 42	655	5
615	617	624	624	624	622	622	629	635	661	5 56	717	15 16	613	6
649	648	652	651	648	646	653	653	651	665	6 52	731	0 12	641	7
663	661	660	663	663	661	665	663	663	680	7 8	738	0 2	655	8†
658	662	663	663	668	668	666	657	666	684	5 50	748	22 20	654	9
641	643	645	647	649	649	650	649	650	655	7 40	689	1 6	636	10
658	641	638	639	642	649	645	645	639	667	6 40	724	15 58	634	11
656	655	653	653	656	655	655	656	658	670	6 36	719	0 48	644	12
661	663	663	661	660	661	664	665	658	686	7 28	755	23 6	659	13
565	565	569	588	591	597	612	619	619	640	5 22	729	16 48	556	14††
629	632	632	635	631	630	629	633	633	656	7 26	726	0 20	625	15
651	654	656	653	652	654	651	653	655	673	7 10	738	0 8	639	16
669	671	669	664	664	665	666	668	660	688	6 50	765	0 30	657	17
677	678	679	683	678	669	671	683	680	686	6 18	731	0 34	660	18
703	699	687	667	667	653	631	638	642	687	5 50	731	20 50	629	19††
653	652	653	651	654	653	652	659	659	673	6 52	764	0 8	645	20††
650	650	653	661	667	657	655	652	660	678	6 8	744	22 20	653	21
583	585	585	595	601	605	621	626	626	618	5 34	679	13 26	577	22††
633	625	621	626	617	619	621	627	635	642	5 46	704	19 6	615	23
601	607	616	620	613	627	613	618	622	624	7 10	675	12 38	581	24††
612	618	622	627	634	643	641	636	634	652	6 10	724	15 2	610	25
625	637	638	638	639	640	640	641	643	657	6 18	727	14 30	617	26
653	654	653	650	649	649	649	649	648	669	6 8	741	0 2	647	27†
654	650	649	650	652	654	656	655	654	669	6 40	728	0 2	647	28†
655	655	656	656	655	653	655	654	655	674	6 4	730	20 30	653	29†
684	679	666	669	668	664	662	664	664	681	6 10	723	0 30	656	30
664	660	660	659	663	662	661	665	665	683	7 10	737	17 42	656	31
647	647	647	648	649	649	649	651	651	667					Mean.
655	654	653	653	653	652	653	652	652	671					Mean.†
624	625	627	630	632	635	635	642	645	648					Mean.††

AUGUST.

663	661	670	665	662	665	671	673	671	683	7 34	743	16 8	661	1
557	559	563	582	586	596	597	594	596	591	2 50	686	9 31	519	2††
635	635	637	636	635	630	627	629	634	634	7 40	692	0 0	601	3†‡
606	609	613	616	621	626	638	636	635	629	6 58	663	1 28	600	4††
645	641	640	637	640	639	637	636	636	655	6 28	701	0 24	634	5
640	641	641	641	639	645	640	638	641	653	5 50	723	12 46	635	6
644	641	638	641	643	644	645	647	646	670	5 26	740	17 31	638	7
647	646	647	649	650	650	649	647	647	662	6 4	714	12 18	646	8
657	654	652	649	651	651	652	652	652	673	6 4	734	0 22	648	9
646	645	648	653	653	653	653	653	653	669	5 34	727	16 0	646	10
670	668	667	665	665	667	673	672	673	681	5 36	720	0 0	653	11
678	676	677	672	669	670	678	679	677	695	6 50	752	19 30	668	12
672	670	670	671	671	667	672	672	675	687	7 6	746	19 30	668	13†
669	668	668	670	679	681	689	687	678	696	6 36	756	17 10	668	14
657	651	649	649	651	651	653	655	655	670	4 52	705	16 0	650	15
663	663	661	662	663	664	661	661	663	676	5 42	718	0 30	657	16†
663	663	660	658	657	657	655	654	655	673	6 12	707	22 10	654	17
674	676	679	678	675	669	670	673	674	680	6 34	717	2 20	663	18
670	665	669	670	665	662	661	670	667	682	7 10	723	20 50	657	19
680	676	678	678	677	671	667	665	665	689	6 50	734	23 50	664	20
668	667	666	665	666	667	669	673	679	680	5 48	718	0 10	666	21
513	519	528	537	547	562	565	565	569	580	4 10	752	9 38	447	22††
607	605	608	609	610	613	614	615	621	610	7 2	625	0 12	575	23
627	625	627	630	634	634	634	633	633	643	7 24	688	0 4	620	24†
650	648	646	649	650	654	657	663	663	663	7 40	713	1 50	632	25†
660	662	662	656	652	651	651	654	658	672	7 20	722	19 30	650	26
644	637	626	631	636	649	639	633	638	667	5 58	730	17 10	626	27††
638	636	642	644	646	647	644	643	643	659	6 38	719	12 32	623	28
650	647	647	647	647	649	652	655	654	665	6 58	720	1 46	643	29
658	657	657	657	657	658	660	659	661	670	7 30	710	1 54	651	30†
673	668	667	666	666	666	666	666	668	684	7 8	736	1 38	662	31
646	645	645	646	647	649	650	650	651	663					Mean.
652	651	650	651	651	652	653	653	654	668					Mean.†
595	597	599	608	613	623	624	623	628	621					Mean.††

*See footnote on page B-19.
†Five international quiet days.
††Five international disturbed days.

(Averages for sixty minutes centred at the full hour of Greenwich mean time.)

SEPTEMBER. 37000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1††	674	671	670	677	699	624	740	747	741	715	697	686	678	674	672
2	661	654	646	653	666	687	703	710	711	702	691	677	669	668	668
3†	662	663	668	689	714	728	632	732	718	706	697	689	682	673	666
4	670	672	676	682	693	703	699	699	691	685	679	674	672	670	662
5	661	652	635	637	654	666	684	686	685	683	685	676	661	660	663
6	660	659	661	668	689	709	721	723	719	711	698	685	676	675	672
7	660	661	663	675	702	722	732	727	712	697	680	675	670	671	671
8	666	668	672	679	693	714	729	728	721	711	701	689	685	684	679
9	666	669	671	678	694	709	723	724	718	709	699	692	689	686	682
10††	674	676	676	689	711	728	742	744	734	718	707	698	687	680	677
11††	660	625	600	597	616	619	623	623	636	638	627	610	611	616	612
12†	629	629	629	635	652	671	679	681	683	680	675	666	654	650	646
13	646	647	648	662	675	689	706	703	694	683	670	657	644	640	638
14††	653	650	650	652	672	712	722	721	710	682	659	654	664	665	659
15	649	654	657	662	683	702	706	703	698	688	676	662	655	651	653
16	655	655	656	666	692	715	720	701	685	680	670	665	664	664	661
17	653	656	648	644	650	666	667	675	680	679	677	671	664	663	665
18	662	662	659	656	672	683	692	696	700	701	696	690	682	680	677
19	650	645	635	640	649	673	687	695	696	689	681	672	663	650	651
20	661	660	659	663	675	690	698	700	698	691	684	680	680	677	674
21	669	675	670	681	687	703	721	723	719	709	695	685	678	676	674
22	675	675	670	671	684	700	709	715	727	723	712	695	681	672	670
23	668	664	650	649	668	683	696	699	698	692	684	671	665	667	662
24	659	651	641	643	659	674	674	670	675	675	663	651	652	651	642
25†	657	657	657	665	683	711	724	720	713	701	687	683	681	679	675
26	670	670	672	688	710	733	744	734	709	702	690	677	676	673	665
27	667	666	570	583	706	732	733	721	713	699	686	681	679	675	666
28†	670	669	669	680	700	724	735	725	709	687	673	667	665	660	661
29†	665	663	662	673	696	715	735	731	721	710	697	686	687	686	683
30††	680	678	675	676	690	712	732	742	737	727	715	705	703	703	718
Mean . .	662	660	657	664	681	700	710	710	705	696	685	675	671	668	665
Mean † . .	661	660	661	672	692	713	724	720	711	698	687	678	674	669	665
Mean†† .	653	645	641	646	667	690	704	709	707	692	678	669	668	669	670

OCTOBER.

1	585	584	577	578	601	623	623	629	625	612	613	605	601	603	601
2	629	627	623	624	645	676	688	686	679	663	651	644	642	643	642
3	650	650	648	659	682	712	723	720	706	691	676	666	667	631	606
4††	621	602	575	576	577	576	572	571	594	612	596	575	556	554	565
5	586	589	597	620	649	676	703	707	697	675	656	644	633	625	610
6	630	635	634	640	657	675	699	698	690	677	663	656	663	669	659
7	652	647	646	660	685	724	776	760	743	713	692	675	663	652	638
8††	640	636	632	615	621	607	619	623	629	618	601	594	603	614	616
9††	626	623	621	628	649	674	689	710	723	711	686	689	656	593	556
10††	603	602	597	623	675	671	700	667	635	624	633	609	595	599	600
11††	633	634	643	665	676	693	695	697	697	699	694	670	672	660	690
12	619	624	629	641	658	681	699	707	691	668	661	630	652	642	639
13	637	623	625	639	664	684	705	707	692	669	655	641	642	629	639
14	647	649	651	657	656	675	686	698	686	667	667	655	657	655	647
15	638	671	680	687	689	704	719	716	696	677	660	634	635	629	628
16	635	641	647	660	672	685	695	700	682	663	663	658	659	658	655
17†	650	653	655	665	678	693	702	713	710	700	689	677	671	670	666
18†	662	665	662	671	686	694	704	702	698	684	675	663	661	669	669
19	677	679	684	699	714	730	738	739	733	716	699	685	671	662	666
20†	666	666	666	680	703	717	722	722	711	697	687	681	681	679	676
21	676	676	680	689	707	726	733	632	722	713	704	685	363	351	643
22	658	661	660	665	679	695	707	695	683	673	665	665	658	648	633
23	659	654	655	669	688	692	699	699	688	648	633	612	602	615	600
24	621	620	604	621	643	663	684	681	674	653	617	624	605	600	599
25	634	627	634	647	664	681	692	695	676	659	657	648	644	635	629
26	653	657	656	667	668	678	698	679	655	622	607	619	626	317	619
27	642	642	649	666	685	692	693	695	675	636	624	524	609	592	585
28	632	634	643	659	678	695	700	705	693	685	674	653	653	653	648
29†	649	650	652	667	686	700	703	699	690	685	682	675	672	667	659
30†	652	658	665	678	690	703	711	711	704	691	677	669	667	670	667
31	659	664	675	693	710	722	728	723	708	691	679	669	663	663	658
Mean . .	640	640	641	652	669	684	697	696	687	671	659	648	643	637	633
Mean† . .	661	663	664	675	692	704	711	712	704	692	683	73	670	671	667
Mean.†† .	619	614	608	617	637	641	653	651	654	652	641	627	617	604	608

† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
679	663	668	666	664	664	663	664	668	686	6 34	750	21 42	656	1††
666	663	663	663	663	660	658	659	659	672	7 34	715	2 4	645	2
663	660	662	663	663	665	669	673	673	684	6 40	735	15 56	660	3†
658	655	654	657	657	655	658	660	659	672	4 44	708	17 14	654	4
660	658	658	659	659	660	663	663	661	664	7 27	690	2 6	634	5
662	663	663	659	656	659	659	655	657	677	7 2	726	18 40	655	6
664	662	662	667	671	671	665	666	667	680	6 10	736	0 6	661	7
674	667	669	668	670	674	666	665	665	685	6 26	732	18 24	664	8
679	669	669	670	669	669	666	667	675	685	7 0	727	21 42	665	9
678	678	673	685	685	672	682	677	673	**693**	6 58	747	22 30	639	10††
608	611	619	618	619	622	625	629	630	**620**	0 0	661	2 18	594	11††
642	640	641	643	644	644	643	643	644	652	7 54	686	2 4	630	12†
633	639	648	648	644	649	642	652	653	659	6 24	711	14 46	633	13
654	650	652	650	652	655	656	656	651	667	5 32	734	10 44	645	14††
650	651	652	653	652	651	653	654	655	665	5 34	715	0 18	649	15
658	650	641	652	655	648	649	651	649	667	5 32	730	17 38	639	16
658	657	659	662	659	659	660	661	660	662	7 56	683	2 22	643	17
672	660	645	640	642	646	658	664	654	670	8 20	705	17 38	639	18
650	652	655	656	655	655	658	659	660	662	7 40	700	2 30	634	19
669	667	668	668	668	667	666	669	672	675	7 10	703	2 10	659	20
668	664	664	666	666	670	668	665	676	682	7 8	728	16 30	663	21
662	659	653	653	661	663	661	664	662	680	8 26	733	17 46	652	22
660	657	657	660	657	650	646	665	656	667	7 28	702	21 6	643	23
633	633	640	643	647	650	654	655	655	654	5 36	682	15 20	630	24
674	669	669	671	670	666	664	667	670	680	6 10	729	1 30	657	25†
659	648	647	657	661	661	661	662	663	680	6 20	749	16 32	647	26
653	651	650	657	659	661	663	666	668	679	6 0	738	16 50	649	27
654	654	659	661	660	658	657	658	663	676	6 10	738	15 52	653	28†
679	676	674	674	674	675	675	676	679	687	6 8	741	1 36	661	29†
709	696	646	610	**568**	581	578	591	586	671	7 18	745	19 32	**554**	30††
661	657	656	657	**656**	656	656	659	659	672					Mean.
661	658	659	660	659	659	**658**	659	662	676					Mean.†
670	665	658	654	646	649	653	657	656	667					Mean.††

OCTOBER.

603	609	601	583	604	631	617	619	625	664	19 38	642	2 18	508	1
639	637	637	641	642	641	642	645	647	648	6 18	691	2 42	620	2
585	585	606	618	620	611	628	625	629	649	6 24	725	15 34	574	3
565	564	575	579	583	579	583	580	582	**579**	0 22	626	12 50	552	4††
609	617	622	623	623	623	624	621	622	636	7 12	711	0 30	587	5
649	658	650	642	639	643	644	645	648	657	6 30	703	1 52	631	6
620	608	613	631	639	626	629	643	642	665	6 10	**787**	16 30	601	7
614	622	632	623	625	619	617	619	622	619	16 46	645	11 4	594	8††
501	503	550	587	606	594	600	602	602	624	8 0	735	15 16	**473**	9††
611	612	611	611	617	624	623	635	641	626	6 2	718	11 24	585	10††
581	603	623	616	607	617	623	621	627	651	10 16	723	15 26	545	11††
635	638	637	644	647	636	621	614	618	648	7 8	711	20 42	605	12
640	633	640	642	640	641	642	646	647	651	6 38	712	1 36	622	13
652	653	654	654	653	656	662	665	669	662	6 50	703	14 4	646	14
619	611	607	608	607	635	631	633	635	653	6 12	725	17 24	604	15
648	633	627	631	634	641	645	647	646	656	6 46	704	16 50	625	16
663	660	654	653	654	658	658	659	658	672	7 20	715	0 0	650	17†
666	668	670	672	674	674	675	673	678	676	6 14	706	11 50	657	18†
668	663	661	663	671	668	668	668	666	**687**	7 8	740	12 58	660	19
673	670	669	670	671	672	672	673	675	683	6 46	726	1 30	663	20†
633	629	633	647	653	651	651	654	657	675	6 24	740	16 40	627	21
655	661	665	664	657	660	662	666	662	666	6 4	715	13 50	628	22
610	615	611	637	629	647	643	624	621	643	6 34	702	13 52	595	23
600	616	605	622	626	622	638	645	639	630	6 24	689	13 36	588	24
608	603	635	634	631	635	641	648	650	647	6 36	699	15 54	597	25
614	611	632	649	647	650	641	652	646	644	6 12	706	9 46	600	26
596	608	611	619	623	627	634	633	634	637	5 18	700	13 50	575	27
640	651	650	653	655	651	653	652	653	661	6 52	707	0 20	631	28
648	644	651	655	659	653	653	652	652	667	5 40	707	15 38	641	29†
662	659	659	659	660	664	662	662	661	673	6 14	713	0 10	651	30†
660	660	658	656	657	662	668	662	662	677	6 10	730	18 0	656	31
625	626	631	635	637	639	640	641	643	651					Mean.
661	**659**	659	660	661	661	661	660	660	674					Mean.†
574	582	601	606	611	610	613	616	620	620					Mean.††

*See footnote on page B-19.
†Five international quiet days.
††Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	662	663	670	688	707	722	730	723	710	698	689	679	669	661	656
2	653	658	663	677	689	705	713	715	700	685	672	671	675	675	665
3	660	661	668	684	705	722	731	727	714	698	686	673	667	664	663
†4	669	674	682	696	718	734	742	739	728	713	695	682	675	671	668
†5	676	678	685	702	721	739	746	745	729	715	704	693	685	685	683
†6	675	676	679	690	701	715	721	719	712	702	694	684	675	671	670
7	668	671	674	689	701	708	716	716	706	697	688	677	670	671	668
8	651	638	646	668	676	690	701	702	693	684	677	673	668	668	667
9	649	650	658	674	691	689	693	685	663	659	662	656	649	634	637
10	660	661	667	682	694	707	711	711	704	698	691	678	672	665	656
11	669	672	679	690	705	719	729	729	715	698	687	672	667	663	663
12	653	657	662	675	618	692	701	705	703	699	688	675	668	665	668
13	665	670	679	694	709	717	718	714	706	697	692	691	687	683	678
14	673	678	678	686	697	707	713	709	701	689	683	676	675	670	670
†15	672	674	678	686	694	704	713	715	708	697	691	686	683	683	682
†16	677	679	687	696	706	716	721	718	711	703	701	699	692	688	686
17	684	686	696	710	721	739	741	738	723	705	693	683	678	672	665
††18	663	662	663	662	654	662	669	669	668	667	655	629	591	606	624
††19	642	646	659	671	687	700	712	712	695	671	647	609	599	603	593
20	633	639	649	664	683	688	696	693	689	662	641	633	641	636	618
21	652	651	655	661	674	685	702	711	707	698	692	677	659	659	654
22	656	661	669	670	679	700	709	709	702	693	662	633	642	642	633
††23	642	642	645	656	667	685	691	686	675	676	670	659	649	641	646
24	654	656	657	663	671	675	689	680	663	655	648	653	643	619	622
25	653	655	656	662	667	679	690	690	684	677	676	672	668	667	661
26	661	663	669	678	685	690	694	689	681	679	677	676	670	668	664
27	679	684	683	688	697	713	719	715	707	701	694	689	679	671	663
28	658	656	660	661	655	666	671	660	646	635	627	626	622	613	606
††29	657	669	681	683	687	701	712	703	699	683	677	673	659	621	600
††30	629	630	628	639	654	669	674	659	651	643	631	619	603	598	589
Mean . .	660	662	667	678	689	701	709	706	696	686	676	667	659	654	651
Mean† . .	675	677	683	695	709	723	730	728	718	706	697	689	682	680	678
Mean††. .	639	643	649	656	664	679	688	683	675	661	655	637	620	614	612

DECEMBER.

1	596	598	611	620	632	641	633	630	620	603	592	583	580	579	575
2	634	638	641	650	651	654	661	657	648	648	647	637	627	627	629
3	650	656	663	673	681	686	691	694	692	681	678	668	658	656	657
†4	657	657	660	664	671	685	697	697	686	676	671	671	669	666	663
5	674	677	681	693	708	720	726	718	705	701	697	692	685	680	676
6	671	677	681	677	685	697	708	709	701	696	687	672	652	642	641
7	668	670	673	681	690	699	710	710	697	675	674	673	668	671	667
8	651	655	663	666	663	669	665	664	665	666	667	663	659	656	646
9	661	663	661	666	665	675	686	690	688	679	673	671	667	666	664
10	667	667	672	669	666	676	680	682	682	675	676	676	673	663	660
11	670	672	669	669	681	684	668	681	682	684	683	670	643	641	647
12	663	664	664	664	665	677	684	687	685	681	678	677	675	674	671
†13	672	675	677	680	683	688	693	698	695	681	672	679	680	680	676
†14	685	686	688	691	700	709	710	707	700	692	688	687	685	685	685
15	686	689	694	700	705	712	720	725	723	720	707	693	677	675	681
16	703	705	708	701	697	709	716	715	709	701	697	693	693	692	691
17	695	697	698	696	701	706	706	706	696	691	691	691	695	693	687
††18	692	700	704	700	706	721	728	721	709	704	687	653	625	601	583
††19	629	639	642	656	670	685	695	690	672	645	631	608	612	618	612
††20	637	642	644	647	660	664	679	682	676	661	654	655	644	641	644
21	655	657	663	667	677	693	704	704	700	695	685	677	671	670	670
22	662	664	673	681	688	697	701	706	685	679	676	665	657	635	635
††23	658	662	668	672	676	693	703	707	697	675	652	631	598	557	537
††24	609	616	618	623	634	645	659	661	658	652	650	642	635	634	632
25	612	614	614	618	624	637	637	632	633	628	628	616	610	615	630
26	642	643	641	639	641	659	669	666	667	665	658	643	614	609	619
†27	647	648	649	646	643	649	667	672	670	660	659	659	659	662	662
†28	666	669	670	675	686	699	703	702	697	695	688	680	675	671	664
29	666	668	665	667	672	685	698	705	698	688	681	677	672	671	671
30	675	676	680	685	695	705	711	714	712	702	682	666	663	659	658
31	676	680	681	691	701	715	722	722	718	707	699	691	688	684	659
Mean . .	659	662	665	669	675	685	691	692	686	678	671	663	655	651	648
Mean† . .	670	672	673	675	679	689	697	697	691	682	676	676	674	673	669
Mean††. .	637	644	648	653	664	677	689	689	680	665	654	637	623	611	603

† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
647	638	636	640	647	648	644	646	649	672	6 6	733	16 54	635	1
659	657	661	659	656	655	653	658	661	668	6 20	718	18 50	649	2
662	660	662	664	664	665	668	668	669	680	5 56	733	0 18	658	3
667	664	665	670	672	673	672	673	675	688	5 58	744	16 16	663	4†
678	674	672	672	673	672	674	676	676	694	6 30	750	16 42	670	5†
666	662	660	664	667	667	667	667	667	682	5 50	722	16 22	659	6†
658	651	669	673	672	667	663	663	663	679	6 50	718	15 54	647	7
661	658	652	651	649	645	643	651	650	665	6 32	708	1 10	633	8
647	646	654	654	655	656	658	658	663	660	6 16	703	12 44	627	9
648	645	661	661	661	665	667	668	671	675	6 28	715	14 50	645	10
663	666	665	667	670	683	674	659	653	681	6 26	733	23 6	651	11
665	664	665	669	677	670	667	665	666	675	7 42	707	0 4	651	12
675	673	671	676	676	671	674	674	672	690	5 48	721	0 0	664	13
669	666	669	670	671	671	672	671	672	681	6 10	715	16 18	664	14
678	674	674	675	675	676	675	675	676	685	6 36	717	0 0	672	15†
683	680	679	679	680	680	682	684	684	692	6 00	722	0 0	676	16†
659	650	655	662	668	669	672	669	664	687	6 38	743	16 26	646	17
603	615	623	601	596	607	617	633	636	636	6 22	678	12 24	576	18††
582	572	603	611	618	624	624	629	631	639	7 30	717	15 46	563	19††
617	631	624	634	636	645	648	650	655	651	5 48	702	15 12	607	20
656	655	654	663	659	654	656	657	657	669	7 6	712	20 4	649	21
618	626	644	630	630	641	649	642	643	657	6 24	714	15 24	613	22
648	645	643	658	646	649	651	654	654	658	5 48	694	13 44	634	23††
631	639	639	638	646	664	655	655	651	653	6 0	690	12 56	612	24
655	653	654	657	661	664	660	657	660	666	6 52	692	16 22	651	25
662	667	671	668	671	673	672	671	680	675	5 34	694	0 16	659	26
662	662	666	668	667	669	663	662	666	681	5 38	718	20 30	654	27
597	592	606	616	627	638	638	659	659	637	5 54	674	15 56	589	28
623	604	601	599	594	601	619	623	627	649	6 0	716	16 36	586	29††
574	552	572	579	563	557	603	598	599	612	5 34	678	15 58	546	30††
647	645	649	651	652	654	656	657	658	668					Mean.
674	670	670	672	673	673	673	674	674	688					Mean.†
608	599	612	614	608	612	629	634	636	639					Mean.††

DECEMBER.

584	589	600	609	626	630	634	635	636	611	5 20	644	13 56	572	1
631	635	641	643	645	647	649	650	649	644	5 58	664	12 16	625	2
661	660	660	660	659	658	657	657	658	667	7 30	697	0 0	649	3
663	662	661	661	664	670	672	675	675	671	6 34	701	1 0	655	4†
666	657	656	663	657	669	666	669	669	683	5 40	729	16 36	652	5
648	656	663	668	665	659	655	655	661	672	6 10	710	14 6	637	6
653	646	635	633	631	641	652	649	652	667	6 16	712	17 28	624	7
621	622	642	652	649	652	665	661	661	656	4 58	674	15 34	614	8
657	656	659	663	668	670	670	669	666	669	7 24	691	15 22	653	9
651	656	654	656	666	663	660	660	661	667	7 51	686	14 42	647	10
649	651	655	661	668	667	665	664	664	666	4 46	689	12 10	634	11
664	664	667	668	666	668	668	668	670	671	7 10	688	3 54	661	12
673	671	668	671	673	674	674	679	683	679	7 24	701	17 34	665	13†
677	670	671	672	676	675	675	677	681	686	5 18	713	16 30	667	14†
681	679	678	680	685	689	693	695	698	696	6 56	727	12 34	671	15
689	685	683	684	688	688	691	692	694	697	6 0	717	17 10	681	16
684	679	678	674	673	676	677	684	691	690	4 50	708	18 28	671	17
565	547	551	559	587	621	607	616	623	645	6 10	732	16 30	542	18††
617	616	640	624	633	647	634	635	634	641	5 56	697	11 30	604	19††
641	643	643	667	652	653	652	655	655	654	7 10	684	13 18	635	20††
667	665	659	655	655	659	665	664	663	673	6 24	707	17 42	653	21
631	630	631	635	639	645	654	655	659	662	6 44	709	16 20	629	22
573	553	636	516	555	592	590	599	606	620	6 48	709	18 0	510	23††
630	619	595	588	605	613	608	605	607	627	7 20	664	18 0	577	24††
635	635	637	640	643	643	643	645	643	630	22 20	648	12 30	603	25
621	626	634	640	643	643	643	645	646	642	6 0	673	12 22	603	26
663	662	661	661	662	662	662	664	666	659	7 38	677	4 44	639	27†
665	662	661	664	665	666	666	668	668	676	5 34	707	16 18	659	28†
670	669	670	673	675	672	672	672	670	676	7 18	707	16 30	667	29
659	659	665	672	678	677	676	676	675	680	7 24	715	14 34	657	30
645	639	643	637	623	638	647	646	657	675	6 22	726	19 24	622	31
646	644	645	647	651	656	656	657	659	663					Mean.
667	664	662	663	665	666	666	669	670	674					Mean.†
608	598	596	594	611	632	624	629	633	637					Mean.††

* See footnote on page B-19.
† Five international quiet days.
†† Five international disturbed days.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	895	899	902	903	901	833	871	879	887	889	885	882	876	872	874
2	882	883	885	889	884	868	855	863	874	886	899	907	898	888	893
3	915	915	921	933	943	925	909	904	900	904	913	921	915	909	911
4	910	911	913	929	944	932	904	883	883	889	896	899	893	891	894
5	901	903	903	907	907	895	883	873	870	871	880	891	899	897	900
6	910	911	919	931	929	896	863	864	874	883	893	901	898	897	905
7††	907	909	911	919	923	922	904	890	904	917	921	919	909	904	906
8	903	905	915	922	924	909	887	888	890	892	894	900	902	905	911
9††	*	914	917	934	937	920	907	895	898	915	915	921	915	914	914
10††	913	916	912	917	916	910	902	895	893	892	897	908	909	911	915
11	914	915	919	926	928	916	894	883	891	904	912	915	911	908	912
12	912	913	918	922	919	897	874	869	881	891	906	912	910	911	912
13	912	915	919	928	926	904	892	890	890	892	899	899	894	892	899
14	901	903	905	908	908	893	876	871	870	880	885	887	885	887	890
15†	893	894	894	899	899	887	878	878	873	876	883	883	876	874	880
16†	889	889	888	896	893	870	852	851	876	899	911	913	904	891	895
17	902	903	906	910	901	884	874	881	898	903	901	902	898	892	895
18	905	904	905	915	916	897	884	883	899	916	921	921	913	907	910
19	912	914	914	920	917	890	870	876	900	919	927	925	917	910	910
20	907	908	910	916	922	916	874	859	859	877	896	905	903	898	901
21	903	901	906	917	919	887	861	869	884	897	898	899	901	898	900
22	903	906	908	919	921	906	894	883	881	891	905	909	905	899	903
23†	913	914	919	933	941	915	893	891	901	899	904	907	903	896	899
24	898	901	906	917	923	900	871	873	883	873	882	899	900	897	899
25†	896	897	905	918	912	895	888	894	896	893	893	893	892	891	895
26	897	897	898	906	901	885	882	887	895	907	911	907	892	885	889
27††	896	899	910	915	899	898	878	887	906	913	925	918	905	899	910
28	904	903	899	911	918	900	897	905	919	921	919	914	896	884	890
29	904	904	908	909	902	886	870	881	906	918	921	911	899	890	901
30††	901	901	905	908	883	843	834	859	891	912	913	899	878	873	885
31	892	895	895	895	881	853	822	827	859	876	893	898	887	875	884
Mean .	903	904	907	915	913	894	878	878	888	896	903	905	899	894	899
Mean ‡ .	895	897	900	910	909	878	875	878	886	891	895	896	890	885	889
Mean†† .	904	906	909	915	904	893	879	882	899	909	914	911	900	896	904

FEBRUARY.

1	898	900	903	910	902	864	855	874	895	911	923	922	909	894	901
2	914	917	922	922	912	890	878	878	891	905	916	916	906	899	904
3††	911	910	917	924	920	890	894	892	909	917	923	913	907	904	910
4	908	907	907	907	898	880	875	883	889	896	903	896	886	885	896
5††	895	893	897	903	902	893	886	881	885	888	887	885	881	883	889
6	882	883	883	887	893	893	887	890	898	899	905	899	884	888	902
7	912	909	915	913	906	896	889	894	905	911	909	904	902	907	913
8†	917	917	920	924	924	925	920	920	924	923	922	917	912	916	923
9††	917	917	917	918	920	913	907	910	911	910	910	910	907	908	913
10	901	903	902	897	888	883	892	903	911	915	915	909	895	897	903
11	896	895	894	888	884	885	887	892	899	901	897	889	880	879	884
12	898	901	903	899	897	892	892	895	902	903	905	897	890	894	907
13	922	924	927	924	923	921	920	928	945	954	955	944	933	929	936
14§	928	930	927	927	924	918	..	..	..	..	..	..	..	..	..
15§	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16§	..	..	..	..	..	913	909	911	921	917	914	910	901	894	901
17	914	914	916	919	919	905	892	894	899	903	903	902	896	891	894
18	909	909	908	904	915	896	884	879	882	890	897	901	898	896	899
19††	920	920	923	918	903	902	895	899	909	910	912	910	902	899	902
20	919	918	918	915	911	900	901	904	905	909	912	910	905	904	907
21††	919	920	921	915	908	898	897	905	915	921	925	919	909	908	912
22	922	923	925	920	905	906	899	899	911	919	922	917	908	905	907
23†	922	923	925	922	912	908	903	903	913	920	924	919	907	903	911
24†	921	923	923	918	914	900	893	898	908	925	925	920	909	899	905
25	911	914	915	905	906	886	887	891	902	911	914	909	897	891	898
26†	902	905	907	899	883	866	858	867	885	899	906	904	890	879	888
27†	900	902	899	892	884	877	878	881	892	912	927	923	914	907	913
28	948	955	963	958	942	927	923	929	943	956	958	954	944	937	942
Mean .	911	912	914	912	906	896	892	896	905	912	916	912	903	900	906
Mean† .	916	917	918	914	904	897	892	895	905	917	922	917	906	900	908
Mean†† .	909	909	913	913	910	897	894	896	905	909	911	907	901	901	906

†Five international quiet days.
††Five international disturbed days.
* Loss of record. Day omitted for means.
Instrument under adjustment; the days have been omitted for means.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	*16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
871	864	866	869	872	872	872	873	874	**878**	2 56	905	16 16	864	1†
892	890	892	893	894	894	893	895	897	888	11 16	908	6 0	853	2
908	906	907	908	908	908	908	908	908	**913**	4 6	**950**	7 52	898	3
890	887	888	891	894	896	896	895	897	900	4 14	947	7 22	879	4
899	895	895	897	899	901	901	904	907	895	3 52	909	8 10	869	5
903	900	900	902	904	905	905	906	909	900	3 24	937	6 18	857	6
905	901	904	900	897	901	900	902	903	907	4 16	923	6 58	889	7††
908	904	902	903	904	905	907	909	909	904	3 14	926	6 36	881	8
910	908	909	909	909	911	910	908	912	..	3 16	940	7 30	890	9††
912	911	909	909	909	911	912	909	911	908	13 46	922	8 38	889	10††
906	904	906	906	907	906	904	904	906	908	4 8	931	7 24	883	11
911	909	908	910	910	909	910	908	907	905	3 10	924	6 48	866	12
896	896	899	897	898	897	898	897	898	901	3 40	934	6 42	887	13
887	887	890	891	892	892	891	890	890	890	3 58	911	7 52	868	14
880	878	881	883	884	883	881	882	884	883	3 40	903	8 10	871	15†
895	894	896	897	899	900	900	899	899	892	10 46	915	6 42	901	16†
894	895	896	898	899	901	902	903	903	898	3 14	911	6 14	871	17
907	904	904	906	908	909	910	911	911	907	11 10	923	6 46	881	18
908	906	907	909	910	910	911	912	912	909	10 24	929	5 46	869	19
900	901	903	903	904	903	903	902	902	899	3 50	923	7 28	853	20
898	896	899	901	899	901	901	903	901	897	3 40	926	6 18	858	21
904	904	904	905	907	909	911	911	911	904	3 45	925	8 2	880	22
897	893	893	894	895	895	895	895	895	903	3 50	945	6 40	888	23†
897	895	893	893	894	892	890	890	890	894	4 16	929	6 24	866	24
893	888	886	887	889	890	891	894	896	895	3 10	920	16 50	885	25†
888	887	887	888	890	891	893	893	895	894	3 33	909	5 26	880	26
911	910	910	910	909	908	907	903	903	906	2 42	918	6 14	876	27††
891	893	895	896	897	897	896	896	895	901	9 20	923	12 48	881	28
901	900	901	902	902	902	903	901	901	901	10 0	923	6 12	869	29
889	888	889	891	893	893	894	893	892	888	9 20	915	5 26	831	30††
886	887	889	890	891	892	893	894	895	881	10 40	900	6 24	**813**	31
898	896	897	898	899	899	899	899	900	898					Mean.
888	884	885	887	889	889	889	890	891	890					Mean.†
905	903	903	903	902	904	904	902	903	902					Mean.††

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902	901	903	903	905	905	908	908	909	901	10 18	925	5 20	**847**	1
904	902	903	903	904	904	906	907	906	904	3 4	921	6 34	871	2
909	909	911	913	909	908	911	912	913	910	3 30	939	5 12	881	3††
898	897	900	901	902	902	900	900	900	896	0 12	909	5 30	870	4
888	885	888	890	891	893	891	891	887	**889**	3 12	905	12 26	879	5††
903	904	909	911	913	914	914	914	912	899	21 40	916	12 20	880	6
915	915	917	918	919	919	920	920	919	910	21 0	921	6 36	887	7
926	923	923	926	926	926	926	923	923	922	4 8	930	11 58	912	8†
912	910	913	915	916	919	917	913	911	913	3 48	923	12 12	904	9††
902	903	903	903	905	903	903	904	901	902	9 50	918	4 48	882	10
887	885	887	889	891	892	895	896	898	890	9 6	902	12 58	878	11
913	914	915	918	922	925	925	929	932	907	22 26	934	12 22	887	12
936	936	937	939	939	939	939	939	939	935	9 24	960	6 6	919	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	14§
..	..	..	..	..	..	..	..	..	..	..	..	..	..	15§
901	899	899	902	903	902	902	901	900	..	..	..	..	..	16§
892	890	893	895	895	895	894	893	893	900	2 54	920	6 28	889	17
898	894	895	898	900	901	902	901	902	898	1 30	911	6 33	878	18
903	907	908	905	908	911	911	911	910	909	1 42	925	5 44	893	19††
907	907	906	908	910	912	913	912	913	909	1 50	923	5 23	866	20
913	911	911	913	915	915	918	916	916	913	10 0	927	5 30	891	21††
907	907	911	911	911	911	911	911	911	912	1 36	927	6 30	898	22
913	912	913	915	915	915	915	915	915	914	1 40	927	6 24	902	23†
907	907	909	911	913	912	913	912	912	911	9 20	932	6 0	893	24†
899	899	900	903	904	903	903	903	903	901	1 30	918	5 30	885	25
892	892	894	897	897	897	897	898	899	892	1 38	909	5 36	857	26†
917	920	925	930	934	937	939	942	945	913	23 59	950	5 22	876	27†
941	939	939	940	941	942	943	943	943	**944**	1 58	**965**	5 25	922	28
907	907	909	910	911	912	913	913	913	908					Mean.
910	910	911	914	915	915	915	915	916	910					Mean.†
906	905	907	909	910	911	912	911	910	907					Mean.††

*The daily mean value of vertical force derived from 24 hourly values has been corrected for progressive change by adding 1/48th of the difference between the values at the terminal and initial hours.

† Five international quiet days.

†† Five international disturbed days.

§ Instrument under adjustment; the days have been omitted for means.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1††	944	950	955	955	942	928	923	927	934	945	955	953	939	935	940
2	934	939	942	940	930	915	903	909	920	932	932	929	923	920	925
3†	922	923	918	913	906	902	898	902	913	921	924	921	915	912	917
4	923	925	928	924	917	906	896	895	908	918	919	915	909	908	911
5††	915	918	919	917	908	901	897	894	901	917	922	920	915	917	918
6§	935	936	932	926	922	..	..	..	..	..	931	935	933	929	933
7†	934	937	942	941	935	929	922	920	921	921	926	927	924	925	929
8†	933	935	939	941	937	927	917	913	915	919	923	924	920	920	925
9	927	928	932	936	933	920	910	907	913	927	933	931	927	926	928
10	922	925	929	926	921	908	896	893	898	909	915	914	913	913	917
11†	923	924	929	929	922	911	902	899	905	916	922	921	918	915	920
12†	918	921	925	924	919	907	892	885	892	904	911	909	903	899	904
13	911	913	919	916	910	902	889	888	901	917	927	932	929	927	929
14	929	930	941	932	921	920	907	903	910	926	936	937	932	931	932
15††	938	940	946	948	942	932	925	917	913	922	929	928	924	922	927
16	921	919	922	925	922	916	904	900	903	906	912	912	909	906	907
17	911	914	922	925	914	903	888	886	890	899	905	911	908	906	909
18	921	926	936	938	928	920	912	912	921	936	944	937	927	926	930
19	938	940	942	942	938	929	911	898	905	917	925	923	917	919	922
20	928	928	932	933	937	934	927	917	916	925	930	931	928	920	922
21	928	930	934	937	937	931	917	902	905	914	917	912	904	904	910
22	919	919	919	934	929	920	903	886	894	909	918	913	902	888	893
23	915	916	921	922	915	904	893	887	887	913	919	917	905	902	904
24	914	918	924	919	909	902	884	875	884	899	906	906	901	900	903
25	919	924	931	928	916	902	889	876	888	902	915	916	908	905	909
26	928	935	945	941	928	913	899	897	908	919	927	923	917	919	927
27††	931	935	944	943	939	935	922	911	905	914	927	929	932	934	932
28	933	936	935	925	919	918	904	892	895	909	919	920	918	916	918
29	925	926	936	937	931	921	909	911	921	927	934	929	922	915	918
30	928	930	940	942	931	920	904	900	904	912	921	915	911	909	910
31††	913	919	923	914	891	868	850	851	884	911	923	912	903	900	904
Mean .	925	927	932	932	924	915	903	898	905	917	924	922	917	915	918
Mean† .	924	927	929	929	923	914	905	903	909	916	921	920	916	914	919
Mean†† .	927	931	937	935	924	912	903	899	907	922	931	928	922	922	924

APRIL.

1	907	909	909	906	901	896	887	883	888	903	913	911	900	892	894
2	893	894	898	891	882	879	873	870	875	892	896	895	883	880	883
3	875	879	880	875	863	861	867	867	885	910	917	914	911	907	910
4	919	922	931	932	920	900	890	886	896	922	938	922	930	924	930
5	948	955	959	953	939	927	916	904	909	931	947	951	947	943	948
6	947	950	954	949	939	927	918	913	922	942	954	951	944	939	939
7	935	940	941	930	920	921	916	915	922	926	929	927	922	920	923
8†	924	926	923	916	914	915	910	904	908	916	921	919	914	914	916
9†	921	925	925	915	906	906	899	892	898	907	910	909	902	899	902
10†	909	912	919	918	915	922	899	887	895	908	919	923	919	909	903
11	919	924	926	920	909	893	879	875	886	902	915	921	917	910	909
12	921	926	927	910	898	892	887	886	896	904	910	907	903	903	909
13	923	929	924	915	908	899	889	886	893	903	912	917	916	912	913
14†	926	933	934	927	919	914	907	899	900	905	907	907	909	909	910
15	921	921	921	919	915	908	902	896	894	896	902	908	911	908	907
16†	920	921	921	918	914	909	909	906	911	919	925	929	922	911	911
17	921	925	930	917	892	891	895	895	895	899	905	908	906	903	905
18	919	925	927	923	914	907	897	893	894	903	911	917	915	909	910
19	923	929	929	918	906	895	886	889	893	900	905	908	912	911	910
20	922	932	928	913	908	905	901	904	908	914	919	921	918	915	916
21	931	936	933	923	912	903	888	884	889	898	911	921	925	924	925
22	932	939	940	928	915	898	885	886	895	901	913	918	917	916	916
23	929	938	943	933	919	907	902	903	915	926	935	937	927	921	924
24††	930	933	931	912	882	870	882	901	923	939	953	958	898	887	890
25††	915	916	914	899	880	863	862	873	881	894	901	907	904	903	906
26††	924	931	922	909	899	891	892	897	904	914	923	927	922	915	911
27††	923	925	931	920	911	912	909	916	920	925	931	930	924	915	910
28††	926	941	940	933	921	898	879	884	894	916	934	952	943	939	936
29§	951	954	946	928	906	893	881	889	..	..	..	..	..	..	..
30§	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mean .	921	926	927	919	908	900	894	893	900	911	920	922	917	912	913
Mean† .	919	923	924	918	913	913	904	897	902	911	917	917	913	908	909
Mean†† .	925	931	930	916	900	888	886	895	906	918	929	936	918	911	910

† Five international quiet days.
†† Five international disturbed days.
§ Instrument under adjustment. Days omitted for means.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MARCH. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
943	942	944	945	945	948	950	949	938	943	10 36	960	5 50	923	1††
928	927	928	929	929	929	928	929	930	927	2 14	944	×	×	2
917	916	916	918	919	918	917	917	917	915	10 6	925	6 10	897	3†
912	911	911	913	915	915	915	915	915	913	2 0	929	6 26	892	4
923	929	935	935	932	932	933	933	935	920	17 6	937	7 30	887	5††
935	935	936	939	941	942	943	944	944	..	..	..	..	..	6§
933	932	932	935	936	937	940	940	941	932	2 10	944	8 42	919	7†
927	926	927	928	930	931	932	932	933	927	2 52	942	7 24	913	8†
929	929	930	932	933	933	932	930	930	927	3 10	937	6 48	905	9
921	921	923	924	925	925	927	927	927	917	2 16	929	6 30	892	10
921	921	921	922	923	923	922	921	922	919	2 32	931	6 56	899	11†
906	905	906	908	908	909	909	910	910	908	2 6	927	7 8	885	12†
932	934	938	940	941	941	942	944	946	924	23 10	950	6 34	885	13
934	935	936	939	939	940	941	941	942	931	..	×	6 52	903	14
922	926	932	934	930	928	928	927	927	929	2 44	950	7 40	910	15††
906	905	908	912	912	911	912	913	913	911	3 10	926	6 20	899	16
912	912	914	918	920	922	923	922	922	911	2 56	927	6 24	882	17
932	933	935	935	935	936	937	936	936	930	10 0	945	6 44	910	18
923	925	926	928	929	929	929	928	928	925	2 34	944	6 48	897	19
925	924	923	926	927	927	928	927	928	927	2 14	934	7 32	912	20
914	916	917	920	924	925	923	923	921	919	3 42	939	7 6	901	21
901	905	909	911	913	912	913	913	912	910	2 38	935	7 10	883	22
904	904	904	908	910	911	912	911	913	908	2 22	926	7 0	886	23
906	908	909	911	913	914	914	913	916	906	2 14	925	6 48	873	24
912	913	915	917	920	921	921	922	924	912	2 10	933	6 58	873	25
928	928	928	930	931	930	929	929	929	925	2 0	947	6 50	894	26
934	933	936	938	939	937	933	930	931	931	2 12	949	8 42	903	27††
919	920	921	922	924	925	924	924	924	919	1 12	938	6 44	890	28
920	922	923	925	927	928	928	927	928	925	2 48	940	6 32	906	29
913	914	916	917	920	917	915	913	913	917	2 50	944	6 34	899	30
909	911	912	911	911	911	908	907	907	902	9 14	930	6 16	839	31††
920	921	923	924	925	925	925	925	925	920					Mean.
921	920	921	923	924	925	925	925	926	920					Mean.†
927	929	932	933	932	932	931	930	929	925					Mean††

APRIL.

897	895	897	899	900	898	898	898	898	899	10 4	915	6 58	882	1
883	882	886	887	887	886	884	886	883	885	10 54	901	7 28	866	2
916	918	919	921	920	921	922	921	923	901	23 0	925	5 10	859	3
934	935	937	940	943	945	945	945	947	927	23 58	952	6 52	885	4
951	950	952	953	955	956	955	954	955	944	1 56	961	7 28	899	5
938	940	941	943	945	944	943	943	943	940	10 32	957	6 40	913	6
926	926	927	927	928	929	930	929	930	926	1 36	944	6 29	912	7
917	917	917	917	917	918	918	917	917	916	1 4	928	7 2	903	8†
904	905	907	907	908	908	908	907	907	907	2 2	929	7 2	891	9†
911	912	914	915	915	916	916	915	915	912	11 14	924	7 2	885	10†
911	913	917	917	926	917	917	916	917	911	1 46	928	6 36	873	11
912	914	916	917	919	920	919	917	916	909	1 38	931	6 36	885	12
916	919	921	922	922	921	920	919	921	913	1 10	932	6 30	884	13
911	913	915	917	918	918	918	917	917	915	1 30	937	7 30	898	14†
910	912	915	917	918	917	917	917	917	911	0 0	923	7 50	893	15
913	915	917	918	918	919	919	918	918	917	10 52	930	6 52	906	16†
908	911	911	912	913	915	916	914	915	908	1 56	932	4 30	890	17
910	912	914	914	915	917	918	917	919	913	1 44	930	7 12	892	18
911	914	916	917	918	918	920	919	919	911	1 44	933	6 20	885	19
919	922	924	924	925	927	927	928	928	919	1 28	935	6 20	899	20
922	922	924	926	926	927	928	928	929	918	1 16	939	6 32	881	21
920	922	923	925	926	927	927	928	928	918	1 24	943	6 4	883	22
928	930	931	931	932	934	933	932	932	927	1 44	944	5 18	902	23
895	901	905	908	912	919	918	918	925	912	23 8	930	5 0	869	24††
910	909	923	925	932	932	933	926	925	906	19 40	944	7 34	848	25††
914	917	917	923	934	930	928	945	929	917	22 34	969	5 7	884	26††
916	919	918	919	919	920	919	919	918	920	1 54	935	5 54	904	27††
939	943	946	943	946	944	942	940	939	931	11 12	959	5 56	875	28††
..	..	..	..	..	..	..	..	..	..	..	..	..	..	29§
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30§
916	917	920	921	923	923	923	923	923	915					Mean.
911	913	914	915	916	916	916	915	915	914					Mean. †
914	917	921	922	927	928	926	928	925	917					Mean. ††

*See footnote on page B-31.
†Five international quiet days.
††Five international disturbed days.
×Loss of record.
§Instrument under adjustment. Days omitted for means.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	916	921	920	909	895	893	898	910	920	933	945	958	956	953	952
2	955	961	957	942	930	911	903	905	915	930	942	950	949	941	939
3	941	947	948	939	924	911	907	910	919	929	938	942	941	939	936
4††	935	941	944	934	919	908	901	900	906	918	926	931	931	929	925
5††	930	930	930	918	904	895	895	893	902	916	931	943	946	945	934
6†	941	945	936	917	887	872	878	884	898	911	924	934	932	926	920
7†	929	935	928	910	901	896	899	903	912	923	929	928	926	918	915
8	928	932	930	917	917	909	909	914	922	934	939	942	937	927	924
9	943	951	952	940	924	913	908	909	922	940	951	948	941	940	936
10	957	962	962	949	937	929	933	939	942	948	951	954	952	945	943
11	955	963	962	952	933	914	909	911	917	923	929	930	929	926	925
12	932	938	935	921	898	870	854	862	877	892	905	910	909	901	896
13	911	918	921	914	891	869	864	870	882	894	905	908	907	900	895
14	908	917	920	911	888	865	851	850	856	868	882	890	893	890	884
15	905	912	909	891	860	849	845	857	878	896	909	914	916	914	912
16	931	938	946	942	925	906	894	899	915	933	941	940	937	932	926
17	940	945	950	945	941	927	913	921	935	945	950	948	942	939	938
18†	945	949	944	936	911	877	861	876	899	922	931	927	923	923	925
19	935	947	945	934	918	906	901	894	900	905	914	925	929	934	926
20†	925	934	930	925	916	901	901	908	913	916	913	914	915	909	903
21†	917	925	923	909	892	883	881	886	897	905	908	909	909	906	905
22	922	929	926	914	899	881	878	889	913	937	944	948	937	935	929
23†	947	955	948	934	916	896	881	879	888	904	924	932	930	927	924
24	942	948	946	927	908	896	889	886	894	915	929	934	935	933	931
25	937	949	952	929	906	897	893	896	913	931	943	951	946	939	934
26	941	952	950	941	921	907	898	903	917	931	935	934	935	937	930
27††	938	947	946	934	917	904	905	908	911	919	922	926	930	933	924
28††	926	944	953	936	913	887	853	875	883	890	902	913	914	916	918
29††	927	934	939	929	914	894	890	893	894	903	910	917	919	917	913
30	925	934	933	921	900	889	890	895	892	900	917	924	930	927	920
31	941	950	951	943	929	914	905	903	907	917	929	936	935	933	928
Mean .	933	940	940	928	911	896	890	895	905	917	926	931	930	927	923
Mean† .	933	940	935	922	904	886	882	888	901	915	924	927	925	921	918
Mean†† .	930	939	943	930	913	897	888	893	899	909	918	926	928	928	923

JUNE.

1	943	955	958	945	924	908	904	905	908	912	921	933	939	937	932
2	943	949	951	941	916	901	896	889	890	901	912	920	928	929	924
3	933	940	941	939	932	923	911	905	911	912	913	914	917	919	916
4	921	925	926	921	911	909	906	906	900	920	922	921	919	915	912
5††	925	929	927	925	923	923	923	925	933	936	929	933	938	940	940
6††	955	961	957	950	946	937	927	924	925	932	941	943	946	946	948
7	961	974	952	938	924	913	907	899	899	911	922	935	943	948	945
8	957	964	964	953	945	937	926	915	918	926	939	941	940	936	933
9†	941	950	950	939	924	905	893	890	893	908	920	925	927	925	921
10	931	938	939	932	921	902	884	876	877	883	896	907	914	913	907
11†	916	921	924	919	900	879	864	860	858	872	887	901	908	907	901
12†	909	919	923	918	903	891	886	883	886	901	908	919	923	920	913
13††	927	939	943	939	928	913	899	888	887	894	905	917	920	921	911
14	935	942	939	931	914	900	889	885	882	890	903	916	923	923	921
15	942	951	950	943	926	915	906	906	908	907	917	924	928	931	923
16	935	943	938	922	909	896	888	877	881	898	913	920	924	926	920
17	935	949	937	930	922	910	902	895	892	893	902	907	916	911	905
18	926	936	929	912	897	901	895	890	895	904	909	906	899	900	904
19†	924	931	929	927	907	874	871	885	893	917	934	940	934	928	921
20††	940	951	951	944	930	913	911	918	931	931	933	936	935	929	928
21	946	958	953	934	909	899	897	901	908	922	924	925	924	924	921
22	943	949	940	928	916	903	899	907	911	913	922	930	931	925	915
23	934	937	934	925	913	899	895	891	902	914	915	912	911	908	903
24	931	941	943	925	905	888	890	907	916	928	937	937	927	918	914
25	938	943	920	895	874	879	895	901	916	928	934	931	925	917	913
§26†	920	928	918	892	..	..	..	871	874	888	907	908	904	898	893
27††	923	935	935	924	903	887	889	892	900	908	913	907	901	903	903
28	925	932	928	916	898	892	888	887	888	890	898	908	908	909	907
29	925	934	927	913	900	874	871	867	875	890	905	910	911	911	907
30	920	924	932	927	895	867	861	882	894	899	903	913	909	916	907
Mean .	934	942	939	929	914	901	896	895	899	908	916	922	923	922	918
Mean† .	924	933	933	928	910	888	879	880	883	900	913	922	923	920	913
Mean†† .	939	948	947	940	929	917	912	911	917	921	925	928	928	927	925

† Five international quiet days.
†† Five international disturbed days.
§ Instrument under adjustment. Days omitted for means.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

MAY — 17000 γ PLUS TABULAR QUANTITIES

Hours (G. M. T.) 15	16	17	18	19	20	21	22	23	Mean.*	Maximum. Time.	Maximum. Mag.	Minimum. Time.	Minimum. Mag.	Date.
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
953	955	958	960	959	959	960	962	962	939	22 42	963	4 43	891	1
941	942	942	943	945	946	945	945	945	938	1 26	964	6 20	901	2
937	938	941	941	943	943	944	943	945	935	1 48	950	5 56	906	3
925	929	930	934	935	933	935	935	937	927	1 50	946	7 22	899	4††
940	941	944	946	947	945	943	944	945	930	12 40	951	6 50	888	5††
921	924	926	926	927	927	927	927	929	918	0 50	946	4 46	871	6†
916	917	918	919	921	922	923	923	923	918	1 12	937	5 0	895	7†
927	930	932	934	936	937	937	938	938	929	11 10	943	5 30	906	8
940	942	943	946	947	948	949	947	945	939	1 30	955	6 10	907	9
942	944	945	945	945	945	944	943	944	**946**	1 45	965	4 46	928	10
925	929	930	931	931	931	930	928	928	930	1 30	**967**	6 30	908	11
901	905	907	908	909	909	909	907	907	902	1 16	939	5 54	853	12
897	899	901	902	902	902	901	901	901	898	1 56	922	5 40	862	13
889	892	897	897	896	897	896	896	898	**889**	1 52	921	6 34	849	14
915	918	922	924	925	927	927	927	927	904	23 59	929	5 36	**841**	15
930	931	933	931	933	935	936	934	936	929	2 24	947	6 12	891	16
939	941	943	945	946	947	947	948	948	941	1 56	951	6 5	909	17
927	929	932	934	936	937	940	941	943	923	1 14	949	5 40	857	18†
928	931	931	933	933	932	931	932	934	925	1 10	948	7 10	891	19
906	909	910	911	912	913	914	915	917	913	1 16	933	5 22	897	20†
909	913	921	923	921	922	923	924	925	910	23 59	931	6 20	881	21
932	936	939	941	943	942	942	943	944	927	11 6	957	5 42	876	22
931	934	934	935	937	939	940	940	942	926	0 54	961	6 54	881	23†
932	934	935	935	936	937	937	937	937	926	1 18	955	7 10	888	24
937	939	940	940	941	942	941	942	941	933	2 4	961	5 48	894	25
930	933	934	935	936	935	933	933	933	931	1 22	963	6 16	901	26
925	928	929	931	932	931	930	930	927	926	1 36	954	5 6	905	27††
917	917	918	918	918	920	921	918	920	912	1 58	964	6 4	874	28††
914	917	917	919	920	922	922	923	921	915	1 50	947	5 52	891	29††
922	927	931	933	934	934	934	934	936	920	23 59	945	5 14	891	30
931	934	937	939	940	939	940	941	939	932	1 20	958	7 10	906	31
925	928	930	931	932	932	932	932	933	924					Mean.
921	924	925	927	929	930	931	932	934	920					Mean.†
924	927	928	930	931	931	931	931	931	922					Mean.††

JUNE.

933	937	939	941	941	939	939	939	940	932	1 20	964	5 48	907	1
923	925	926	929	929	931	932	930	931	923	2 12	956	7 12	890	2
918	921	923	922	922	922	922	923	924	921	1 28	947	6 52	908	3
912	913	915	917	917	919	917	919	920	916	1 28	931	7 14	906	4
940	943	946	948	947	946	947	951	951	937	23 50	959	3 50	925	5††
948	950	951	951	954	954	953	956	957	**946**	1 0	969	7 28	923	6††
945	947	949	950	952	953	953	952	953	938	1 10	968	7 14	901	7
935	938	942	943	944	943	943	941	941	940	1 10	**970**	7 10	916	8
922	924	927	927	928	927	926	927	928	923	1 28	959	7 14	894	9†
908	913	915	917	918	918	917	917	918	911	1 42	945	7 8	877	10
900	903	906	908	909	908	907	906	907	**899**	2 18	930	7 36	859	11†
915	918	919	919	918	918	919	922	924	912	23 59	931	7 22	886	12†
913	916	921	923	924	926	926	927	930	918	1 48	948	8 44	889	13††
924	927	929	930	932	933	932	935	935	920	1 14	949	7 59	885	14
924	927	929	929	930	930	929	930	933	927	1 14	960	6 12	907	15
920	922	925	927	929	929	928	929	929	918	1 20	953	7 8	879	16
908	912	915	918	918	917	916	918	918	914	1 4	961	8 14	894	17
906	906	907	909	910	910	911	912	912	908	1 0	943	7 10	893	18
923	926	928	929	929	928	928	928	930	920	10 50	946	5 30	869	19†
932	935	936	937	936	935	933	935	937	933	1 16	961	5 58	913	20††
922	923	924	925	925	925	924	925	925	923	0 50	965	6 4	900	21
917	921	924	925	926	927	926	923	924	923	0 40	956	5 58	901	22
905	907	909	911	911	910	909	909	911	911	1 18	944	6 54	892	23
918	916	917	919	921	919	918	919	919	920	1 24	951	5 28	883	24
915	914	915	916	917	918	917	917	917	914	0 40	947	4 5	871	25
897	903	906	908	908	909	907	908	911	..	1 8	930	..	..	§26†
905	909	917	915	913	913	914	910	911	910	1 42	938	5 14	880	27††
907	907	907	908	909	909	908	907	907	906	1 4	935	6 32	886	28
908	908	908	910	910	910	910	910	909	904	0 47	936	7 0	864	29
909	913	915	918	920	921	919	917	917	908	2 34	935	5 26	**857**	30
919	921	924	925	925	925	925	925	926	920					Mean.
914	917	919	920	920	919	918	919	920	913					Mean.†
926	929	932	932	932	931	931	931	932	929					Mean.††

*See footnote on page B-31.
†Five international quiet days.
†† Five international disturbed days.
§ Instrument under adjustment. Day omitted for means.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	919	926	927	918	885	873	869	883	899	900	905	910	908	911	913
2	919	927	927	916	904	902	904	902	899	903	912	916	921	921	914
3†	910	917	911	887	862	863	865	868	883	907	925	931	938	933	922
4	929	938	935	921	905	891	896	905	910	924	929	930	928	920	916
5	933	943	938	923	899	883	878	887	911	923	927	926	923	921	916
6	933	940	938	931	919	904	891	890	900	906	911	916	923	923	916
7	936	951	951	946	930	905	902	899	908	917	919	925	927	919	919
8†	931	937	931	924	915	904	894	889	885	888	904	914	914	907	902
9	923	935	933	917	895	878	873	883	895	909	913	909	905	901	896
10	912	926	931	927	908	893	886	×	883	888	895	901	902	902	896
11	917	927	924	915	932	879	871	873	886	896	905	906	899	899	903
12	926	934	936	924	915	904	902	904	899	896	907	917	919	918	914
13	927	933	932	921	908	894	887	890	899	910	918	923	926	920	910
14††	921	932	931	922	901	889	882	888	895	906	917	915	914	911	909
15	926	930	928	922	908	893	883	880	889	898	906	914	915	916	906
16	918	924	926	925	916	904	897	889	890	905	913	926	926	917	899
17	918	927	925	916	900	892	891	910	910	903	900	906	915	915	907
18	926	937	933	917	904	900	899	895	892	897	906	909	912	911	905
19††	924	931	932	929	923	911	903	893	889	899	906	913	919	912	907
20††	920	928	922	904	895	899	896	893	894	895	901	905	907	911	909
21	915	922	919	911	901	897	894	875	883	877	892	911	918	911	899
22††	907	916	900	882	877	876	885	892	896	899	902	898	898	902	899
23	911	918	917	910	895	873	868	872	884	897	917	925	918	906	895
24††	921	931	913	902	893	898	901	904	915	926	941	954	962	959	951
25	963	963	963	950	928	911	908	914	921	927	940	946	947	941	939
§26	954	962	967	965	947	..	..	..	..	..	..	..	..	..	..
§27†	..	..	..	..	..	..	864	871	877	885	895	908	922	925	921
28†	930	936	931	914	893	875	874	877	887	907	916	924	922	914	909
29†	911	917	915	906	897	896	889	885	884	897	907	914	912	906	897
30	900	912	915	905	882	861	851	858	877	890	897	903	905	907	908
31	917	923	927	919	907	896	894	899	904	906	913	918	921	922	916
Mean . .	923	931	928	917	903	891	887	889	896	904	913	918	919	916	911
Mean† . .	918	924	920	906	890	883	879	879	883	899	913	921	922	915	908
Mean†† .	923	932	923	911	900	897	895	896	899	906	914	917	920	919	914

AUGUST.

1	921	934	937	923	911	897	895	905	912	926	924	915	913	909	905
2††	919	929	927	914	904	905	899	894	902	915	919	917	921	922	917
3††	920	926	922	910	893	876	876	887	891	891	885	885	892	899	899
4††	914	919	918	906	889	883	879	873	883	898	900	904	902	898	891
5	905	916	917	903	889	878	863	863	879	890	894	899	902	900	896
6	922	935	933	908	878	872	888	897	900	909	919	928	928	914	903
7	930	945	945	929	904	894	908	924	928	929	935	940	938	926	914
8	931	945	949	939	915	913	904	902	900	904	915	924	921	913	906
9	923	934	933	918	894	882	883	890	898	905	906	918	927	924	913
10	922	931	929	914	891	871	873	884	889	894	904	912	917	918	911
11	915	927	932	921	911	894	878	872	878	888	890	890	899	903	901
12	907	918	921	907	888	877	867	869	882	889	897	899	899	896	890
12†	900	911	906	880	860	851	843	849	865	881	889	901	908	907	901
14	915	924	924	904	878	870	867	873	887	897	909	909	909	901	900
15	916	921	923	917	904	885	871	870	879	885	893	904	910	910	903
16†	914	922	927	921	902	898	902	900	901	906	910	913	912	907	901
17	907	915	912	901	899	895	897	899	897	900	908	914	910	899	896
18	897	906	905	896	883	867	850	852	863	873	876	881	879	877	880
19	888	896	892	876	860	860	861	871	884	890	887	888	887	893	897
20	908	913	908	895	882	867	865	870	878	891	899	901	900	897	901
21	910	916	918	910	900	896	894	895	898	903	904	907	905	902	904
22††	915	922	911	886	865	852	858	872	876	892	909	908	908	906	909
23	923	927	925	911	894	884	882	879	878	886	887	890	893	901	906
24†	915	922	923	914	897	881	869	870	880	892	905	917	917	909	902
25†	911	916	921	919	913	901	881	888	899	905	912	919	919	910	902
26	913	919	922	911	886	864	840	837	857	880	893	904	905	901	898
27††	908	914	917	908	895	879	872	876	885	896	900	903	903	898	901
28	914	920	913	898	883	868	866	870	871	881	895	910	919	906	899
29	918	926	925	912	892	876	870	867	866	876	891	896	895	892	898
30†	915	921	918	902	894	883	870	872	887	903	917	918	909	899	900
31	906	913	921	911	900	891	894	896	901	908	908	901	887	884	888
Mean . ..	914	922	922	909	892	881	876	879	887	896	903	907	907	904	901
Mean† . ..	910	918	919	907	893	883	872	875	886	897	907	914	913	906	901
Mean†† .	915	923	919	905	889	879	877	880	887	899	903	903	905	905	903

† Five international quiet days.
†† Five international disturbed days.
× Loss of record. Day omitted for means.
§ Instrument under adjustment. Days omitted for means.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
912	915	918	921	922	922	921	924	925	909	1 4	929	5 47	865	1
814	915	915	916	917	916	917	917	918	914	1 24	935	7 38	897	2
921	924	926	927	928	928	928	928	929	911	11 44	937	4 34	854	3†
920	924	926	929	930	932	931	931	931	922	1 18	939	5 24	886	4
914	922	925	928	931	933	933	933	933	920	1 8	944	5 58	875	5
919	926	926	926	928	929	927	929	931	920	0 54	946	6 26	886	6
923	926	927	928	927	928	927	927	929	925	1 23	956	6 50	892	7
904	908	912	915	916	916	916	917	917	911	0 52	939	8 6	885	8†
901	904	907	909	911	910	910	908	911	905	1 26	939	5 46	869	9
897	901	903	904	905	906	907	907	909	..	1 20	935	.. ..	×	10
908	913	915	917	919	919	918	919	921	908	1 28	929	6 14	869	11
915	918	919	919	918	918	918	918	920	916	1 34	941	9 8	894	12
908	910	911	913	914	915	915	914	918	913	1 16	936	6 0	885	13
911	911	911	910	911	910	913	916	918	910	1 18	935	6 16	879	14††
905	907	906	906	907	908	909	908	912	907	1 0	932	6 44	877	15
898	898	901	904	906	907	907	907	909	909	11 2	928	7 40	887	16
907	909	917	913	913	915	916	918	919	911	1 10	929	5 54	887	17
908	910	912	915	918	919	919	919	920	912	1 20	940	8 4	891	18
908	914	918	920	919	918	916	918	918	914	1 10	934	8 1	887	19††
909	912	914	915	917	917	917	917	918	909	1 16	934	6 54	885	20††
901	905	895	896	900	902	902	905	903	901	1 17	926	7 49	860	21
901	904	906	907	908	911	913	914	914	900	1 5	920	4 38	873	22††
898	905	907	910	912	911	913	914	916	904	10 50	927	5 34	863	23
953	955	958	961	964	960	963	961	962	939	23 25	968	3 42	888	24††
942	945	947	949	949	948	950	952	951	941	1 30	966	6 12	906	25
..	..	..	..	..	..	..	..	..	..	.. ..	..	.. ..	..	§26
921	923	927	929	931	931	931	931	933	..	1 8	936	4 36	862	§27†
908	911	915	916	918	920	920	919	919	910	1 8	938	5 22	871	28†
897	899	901	902	903	904	903	903	902	902	1 24	920	7 44	881	29†
910	913	916	918	920	922	923	923	922	902	21 44	924	6 18	849	30
913	914	915	917	917	919	919	919	919	914	2 2	929	5 40	892	31
912	915	917	918	919	920	920	921	922	913					Mean.
908	911	915	916	918	919	919	919	919	908					Mean.†
915	918	920	921	921	920	921	922	922	915					Mean.††

AUGUST.

906	910	911	913	914	916	915	914	917	914	1 26	941	5 42	892	1
917	919	924	924	924	925	927	926	925	917	1 24	932	6 44	889	2††
897	900	902	904	907	908	909	908	912	900	1 12	928	5 34	870	3††
891	892	895	897	897	897	900	901	902	897	1 38	928	7 0	871	4††
897	900	902	903	904	907	908	909	912	898	1 26	922	6 30	857	5
907	910	914	913	913	912	914	915	918	911	1 24	939	4 50	869	6
915	919	921	921	921	921	921	921	923	924	1 14	951	4 48	892	7
910	912	914	915	915	915	913	914	916	917	1 28	951	7 54	900	8
913	915	917	917	917	917	916	916	918	912	1 22	938	5 20	880	9
909	910	910	911	912	910	909	909	910	906	1 20	935	5 14	868	10
897	899	902	904	904	904	905	905	905	901	1 40	935	7 6	871	11
890	891	893	894	895	896	897	897	898	894	1 40	923	6 36	865	12
902	905	907	909	911	912	913	914	915	894	23 59	919	6 4	842	13†
903	904	905	906	908	911	913	913	914	902	1 24	929	5 42	866	14
903	905	906	908	909	911	911	913	913	903	1 38	924	6 44	868	15
901	903	905	906	908	909	909	909	911	908	1 42	928	4 44	897	16†
896	897	897	899	900	900	901	901	901	901	1 24	920	5 12	894	17
882	884	885	888	890	890	891	890	890	882	1 18	910	6 24	847	18
898	901	903	903	906	907	907	908	909	891	22 10	910	4 24	857	19
904	905	906	908	910	912	912	911	912	898	1 6	915	5 38	862	20
907	907	909	911	912	912	913	914	913	907	1 50	920	5 50	891	21
915	919	922	923	926	924	927	926	925	904	21 0	929	5 4	848	22††
906	908	911	913	914	915	915	914	915	903	1 20	929	7 36	877	23
904	906	909	910	911	912	911	911	912	904	1 30	926	6 30	866	24†
903	905	907	909	910	911	910	910	910	908	2 10	921	6 12	878	25†
898	900	903	906	907	906	907	907	909	895	1 34	925	6 58	834	26
901	903	900	900	903	903	903	905	903	899	1 28	919	6 0	871	27††
903	905	907	908	908	909	910	911	913	900	1 12	923	6 2	865	28
900	901	902	904	907	908	909	910	912	898	1 24	929	8 14	865	29
902	903	904	906	907	907	907	909	910	902	1 24	925	6 28	867	30†
890	889	891	893	895	896	895	895	896	897	2 6	922	12 34	882	31
902	904	906	907	909	909	910	910	911	903					Mean.
903	905	907	908	910	910	910	911	912	903					Mean.†
904	907	909	910	911	911	913	913	913	903					Mean.††

* See footnote on page B-31.

† Five international quiet days.

†† Five international disturbed days.

× Loss of record. Day omitted for means.

§ Instrument under adjustment. Day omitted for means.

VERTICAL FORCE, 1937.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1††	889	897	897	883	860	843	840	845	861	875	883	885	880	875	878
2	876	882	883	865	839	818	828	852	878	898	906	909	906	903	906
3†	921	930	931	918	900	890	888	892	894	899	910	915	914	912	911
4	930	938	943	931	905	881	877	885	897	914	925	923	914	915	920
5	931	945	949	927	901	883	874	884	904	918	924	929	931	920	916
6	934	942	949	938	895	883	877	877	880	887	905	920	924	922	918
7	941	955	951	926	904	895	892	895	910	923	931	931	925	915	917
8	935	941	945	931	899	874	869	874	882	899	913	923	920	916	918
9	929	939	946	933	909	891	882	880	891	896	903	912	914	912	913
10††	932	941	949	933	903	880	864	861	872	886	893	898	894	890	890
11††	905	914	915	900	874	858	847	843	853	869	886	898	901	896	895
12†	907	914	916	902	887	874	868	868	879	890	900	902	897	894	895
13	905	913	917	904	879	863	851	852	860	874	884	892	895	893	891
14††	900	907	905	884	862	846	837	843	854	869	881	883	878	874	879
15	891	896	898	883	871	867	870	867	871	873	880	875	869	869	875
16	886	892	893	880	859	858	865	882	896	913	917	908	898	903	911
17	930	936	938	925	912	898	887	894	905	915	922	919	909	908	916
18	924	931	929	905	889	885	881	885	897	907	912	907	900	900	907
19	916	924	921	896	871	852	840	850	874	896	902	902	899	900	902
20	911	919	919	902	883	866	852	862	879	895	901	902	900	899	902
21	917	927	933	918	891	869	859	869	882	899	908	905	899	898	901
22	913	920	924	908	885	879	871	874	880	897	902	903	900	897	903
23	909	921	927	915	894	879	873	875	883	898	909	913	905	895	900
24	908	916	923	913	893	883	881	877	885	905	915	914	905	897	904
25†	917	925	933	921	898	882	871	868	874	890	898	897	892	895	903
26	913	917	925	925	907	890	881	883	897	907	909	907	902	903	905
27	918	925	930	913	892	882	873	875	891	905	908	905	903	906	911
28†	915	922	929	922	906	894	884	881	889	898	901	900	899	903	908
29†	912	921	927	915	895	881	868	861	867	882	888	891	892	895	900
30††	909	920	924	914	891	874	868	874	891	904	911	908	900	899	902
Mean . .	914	922	926	911	889	874	867	871	883	896	904	906	902	900	903
Mean† . .	914	922	928	916	897	884	875	873	880	892	899	901	899	900	904
Mean†† . .	903	912	915	900	875	858	849	851	865	880	890	894	891	887	889

OCTOBER.

1	916	934	935	923	908	877	861	859	877	901	912	915	906	904	911
2	929	936	937	919	895	882	881	882	888	901	903	903	900	901	909
3	926	937	941	925	901	887	884	883	890	895	900	904	905	901	908
4††	930	931	929	918	903	892	886	889	895	909	905	899	903	904	905
5	915	921	924	909	881	853	842	850	869	885	893	897	894	892	901
6	900	908	911	897	871	840	823	828	841	864	880	881	877	876	883
7	871	881	891	888	856	825	812	823	835	853	869	871	863	858	864
8††	859	869	871	863	841	849	851	861	868	880	891	903	912	915	921
9††	928	935	946	941	921	905	899	895	898	911	922	919	914	922	923
10††	938	938	937	925	908	900	888	901	923	937	935	933	925	926	931
11††	929	929	935	927	912	899	894	891	903	921	926	919	907	914	922
12	909	910	912	903	897	890	882	885	897	906	904	903	899	901	902
13	895	898	899	889	875	864	861	869	885	896	896	890	882	885	889
14	895	901	910	906	893	882	868	867	876	882	874	868	872	880	887
15	902	903	909	912	906	894	889	887	888	894	899	902	902	903	909
16	915	917	920	920	916	907	903	911	925	931	929	925	921	921	926
17†	926	928	929	921	910	901	896	900	912	919	919	917	912	911	915
18†	908	915	915	907	897	887	877	885	893	899	899	893	883	881	884
19	889	893	893	884	877	868	862	869	880	888	893	891	882	883	892
20†	892	897	896	883	875	869	866	871	882	894	896	890	884	889	896
21	900	904	902	892	878	864	862	871	886	893	893	889	879	879	886
22	893	899	899	893	883	882	891	905	915	922	925	917	909	912	920
23	923	927	928	923	905	889	888	895	903	910	913	909	901	903	907
24	910	920	920	911	897	887	883	894	905	911	913	910	904	900	899
25	907	912	914	905	889	879	874	878	881	879	883	885	886	892	888
26	892	897	899	895	890	885	869	869	875	880	879	879	876	883	883
27	895	897	891	882	875	873	877	876	884	883	884	883	877	876	877
28	885	884	881	875	869	866	..	869	883	888	886	881	877	881	886
29†	896	897	897	889	882	874	874	886	893	891	887	886	883	886	888
30††	897	902	901	894	886	884	882	887	893	895	895	890	882	887	893
31	898	899	899	898	895	882	876	885	896	898	895	892	890	895	900
Mean .	905	910	912	904	890	879	873	878	888	897	900	898	894	899	900
Mean† .	901	905	906	897	888	881	877	885	894	899	899	895	889	891	896
Mean†† .	920	924	927	918	899	891	885	889	898	913	917	915	912	916	920

† Five international quiet days.
†† Five international disturbed days.
.. Loss of record.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
880	879	880	882	884	883	881	881	880	**876**	1 26	901	5 48	839	1††
909	913	915	917	919	920	921	920	921	893	23 59	925	5 18	**815**	2
913	916	918	920	922	923	924	925	928	913	1 40	935	5 36	886	3†
921	921	922	923	925	926	925	926	927	917	1 52	945	5 52	874	4
920	921	924	926	927	927	928	928	931	919	1 44	954	5 52	871	5
921	922	926	929	930	931	932	932	933	917	23 59	937	6 36	876	6
921	922	923	926	927	929	929	927	929	**923**	1 44	**956**	5 36	891	7
920	920	920	923	925	926	926	925	924	914	1 36	947	5 48	868	8
914	915	916	918	920	922	921	919	920	913	2 2	948	7 4	877	9
889	889	891	894	899	900	897	900	893	897	1 52	951	6 48	859	10††
897	898	899	901	903	906	903	904	905	890	1 24	923	7 2	842	11††
896	895	897	899	902	903	902	903	903	895	1 46	920	6 10	863	12†
891	893	896	898	899	899	900	897	901	889	1 40	920	6 24	847	13
880	882	884	887	889	891	892	893	893	879	1 18	912	6 24	834	14††
876	877	879	882	885	886	885	885	886	879	1 24	902	7 12	865	15
915	917	920	921	923	925	924	925	926	901	23 59	930	4 20	855	16
921	921	921	924	925	925	926	924	924	918	1 48	940	6 8	885	17
909	910	910	912	912	912	915	917	918	907	1 26	935	6 20	878	18
902	904	906	908	909	909	909	909	910	896	1 28	929	6 10	838	19
903	904	906	907	909	910	909	909	912	899	1 30	923	6 2	851	20
902	902	905	908	908	909	909	908	907	901	1 58	936	5 58	861	21
904	906	907	908	909	908	908	908	909	901	1 42	930	6 6	872	22
900	902	905	906	907	907	906	906	906	902	1 26	933	6 3	875	23
905	904	908	911	913	914	914	914	915	905	1 50	928	7 26	875	24
904	903	905	909	911	912	911	909	910	901	2 0	937	6 54	870	25†
907	905	906	909	911	913	913	913	914	907	2 20	931	6 24	881	26
911	908	909	911	913	913	914	913	914	906	1 52	935	6 36	873	27
908	907	908	911	911	911	911	909	909	906	1 58	933	6 50	881	28†
902	900	901	906	909	910	909	907	909	898	1 50	931	6 54	863	29†
903	905	912	915	913	907	908	910	908	903	1 42	929	6 0	870	30††
905	905	907	910	911	912	912	911	912	902					Mean.
905	904	906	909	911	912	912	911	912	903					Mean.†
891	892	895	898	900	900	899	901	899	889					Mean.††

OCTOBER.

914	915	918	921	916	917	917	917	919	908	1 26	946	6 34	858	1
911	913	915	917	919	921	920	920	922	909	1 40	942	5 18	882	2
907	905	910	914	917	917	915	916	915	909	1 56	947	6 52	886	3
907	908	909	912	915	917	916	915	915	909	0 20	937	6 22	876	4††
900	897	900	904	905	905	906	907	905	894	1 34	930	5 54	841	5
882	879	880	882	881	881	881	881	880	875	1 50	914	5 38	821	6
863	861	863	867	869	869	867	866	867	**860**	2 36	911	5 26	**805**	7
922	923	929	932	934	935	935	935	937	899	23 59	939	4 6	834	8††
928	921	926	936	936	937	941	944	943	925	2 34	**948**	7 26	891	9††
934	935	938	938	938	938	938	935	938	**928**	9 16	947	6 28	880	10††
928	918	929	929	929	923	926	925	925	919	14 44	939	7 0	889	11††
904	907	907	907	909	915	913	910	906	903	20 32	919	6 16	878	12
891	889	894	895	895	894	894	894	895	888	2 32	901	5 42	858	13
889	890	893	898	900	901	901	899	900	889	2 10	912	6 20	859	14
912	915	917	918	920	917	915	913	914	906	2 36	913	6 46	884	15
925	927	928	930	928	927	927	929	927	923	8 46	933	5 40	902	16
913	911	912	915	915	914	914	913	912	914	1 44	931	6 40	893	17†
881	879	883	885	886	887	888	890	892	891	1 18	919	6 0	875	18†
893	891	893	896	897	897	896	895	896	887	19 16	899	5 44	861	19
895	893	895	897	899	898	897	896	897	890	1 20	899	6 12	865	20†
885	885	889	889	891	891	893	891	891	887	1 22	906	5 52	861	21
917	915	918	921	921	922	924	924	925	911	10 2	926	4 44	879	22
904	906	909	907	906	907	909	908	906	907	1 12	931	5 24	883	23
900	900	900	901	901	904	902	903	903	903	1 32	926	5 52	880	24
884	887	889	891	890	889	889	888	888	889	2 14	916	5 58	872	25
882	883	884	883	886	886	888	886	889	884	1 32	891	6 10	860	26
879	880	880	880	880	881	881	882	880	881	0 52	898	5 19	870	27
883	879	884	889	890	891	891	892	892	883	21 52	895	.. ..	..	28
886	881	885	887	888	889	892	893	893	888	1 42	900	5 40	871	29†
890	888	891	893	894	894	895	895	897	892	1 18	904	12 20	880	30†
897	896	899	901	901	903	904	902	902	896	21 4	906	6 4	875	31
900	899	902	904	905	905	906	905	905	898					Mean.
894	891	894	897	898	898	899	900	901	895					Mean.†
923	920	925	928	929	928	929	928	**929**	916					Mean.††

* See footnote on page B-31.
† Five international quiet days.
†† Five international disturbed days.
..Loss of record.

(Averages for sixty minutes centred at the full hours of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	898	900	901	895	885	883	882	885	883	880	881	883	881	884	888
2	881	883	885	883	874	869	869	873	876	871	855	849	855	862	868
3	872	875	879	875	862	851	853	861	870	868	860	854	851	858	864
4†	872	873	873	869	856	853	857	866	872	868	862	860	862	866	868
5†	869	870	871	872	867	866	877	900	915	917	910	903	902	909	912
6†	918	918	918	920	915	905	905	913	917	915	910	905	901	903	905
7	906	908	910	905	901	894	891	901	909	910	908	905	900	903	906
8	906	905	906	905	904	898	903	908	912	914	912	909	902	902	905
9	913	915	914	909	901	890	887	898	911	909	906	901	894	899	897
10	909	910	912	915	914	910	905	914	918	909	898	895	891	893	895
11	909	909	909	915	913	906	902	906	911	899	883	883	874	872	871
12	881	883	884	886	881	874	873	880	883	883	874	869	871	873	876
13	887	888	891	899	901	899	896	893	899	895	887	886	881	882	885
14	892	893	897	900	895	887	888	891	888	892	871	874	878	884	883
15†	890	892	897	902	897	884	878	881	880	873	867	867	870	876	882
16†	889	890	891	895	890	884	880	887	891	885	882	882	881	882	884
17	882	883	887	893	892	887	884	891	893	890	888	885	878	881	885
18††	877	880	882	886	876	864	866	877	876	872	869	873	875	878	881
19††	865	866	867	872	869	867	879	896	906	906	898	890	887	892	898
20	898	900	903	908	905	903	901	904	904	905	901	894	890	891	897
21	894	896	896	905	907	899	893	901	913	915	909	890	891	889	891
22	893	896	897	898	891	888	885	891	901	908	913	907	899	901	898
23††	896	899	900	900	895	886	882	882	883	886	897	902	901	896	899
24	900	903	907	906	896	887	878	879	880	881	885	889	887	889	888
25	887	890	892	894	888	876	873	878	879	880	882	887	885	884	885
26	883	886	891	895	888	885	880	883	884	885	885	884	879	879	881
27	882	884	890	896	891	884	882	883	879	882	887	890	887	887	890
28	887	889	893	903	912	903	902	905	905	900	895	891	891	893	894
29††	889	887	893	895	888	883	885	886	886	884	879	878	885	885	889
30††	885	888	888	887	887	881	889	902	901	894	890	885	878	881	880
Mean .	890	892	894	896	891	885	884	891	894	893	888	886	884	886	888
Mean† .	890	891	892	894	887	880	880	891	896	892	887	883	883	887	890
Mean†† .	884	886	887	890	884	877	881	890	891	889	887	886	885	886	889

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1	882	882	884	885	886	887	896	901	904	899	893	891	890	894	895
2	893	896	900	903	897	887	882	893	899	899	891	884	886	893	896
3	902	902	904	903	900	897	898	906	915	916	916	911	904	9 9	911
4†	912	915	918	916	911	906	911	916	919	921	919	916	911	911	912
5	908	909	909	907	900	893	883	886	891	898	901	901	894	895	899
6	900	903	907	907	899	885	881	886	892	895	897	895	887	887	889
7	896	901	900	904	901	888	888	891	896	901	899	895	889	891	890
8	902	904	907	913	904	884	883	891	901	907	903	897	891	893	891
9	899	901	902	904	898	882	879	889	893	893	893	892	888	888	888
10	902	905	911	912	906	891	885	889	892	897	899	898	892	890	891
11	891	891	893	896	891	873	860	863	875	883	885	884	877	875	879
12	885	887	892	896	887	872	865	868	874	880	887	887	883	885	885
13†	897	901	908	917	912	904	888	878	887	894	901	905	901	900	900
14†	898	900	904	908	902	886	879	871	869	876	882	886	886	889	891
15	887	887	891	903	895	876	855	852	857	863	868	869	860	865	870
16	865	867	869	874	863	842	832	833	836	839	845	850	849	855	859
17	862	863	868	868	865	861	852	861	868	870	875	882	889	895	898
18††	893	895	898	900	893	877	871	876	887	891	892	897	894	898	901
19††	896	901	903	903	899	890	889	893	905	912	909	903	891	896	901
§20††	893	896	897	894	896	..	892	892	892	891	891	888	877	880	883
21	882	884	885	889	887	876	873	871	874	875	880	880	876	879	885
22†	907	911	915	920	913	903	900	908	913	919	925	922	912	907	909
23††	913	914	919	924	915	893	890	894	904	918	918	911	898	903	900
24††	902	904	904	903	890	881	885	898	901	900	901	896	886	885	883
25	880	883	891	888	870	850	852	861	862	865	867	865	859	864	870
26	873	876	882	883	864	842	850	852	861	871	878	872	862	859	864
27†	879	880	885	894	891	863	852	855	858	858	859	861	860	868	869
28†	886	890	893	895	890	874	870	877	884	889	896	897	894	893	893
29	896	901	904	909	909	881	873	887	893	898	897	895	893	893	898
30	897	898	897	899	899	889	872	873	883	891	891	887	880	882	885
31	876	877	880	883	887	866	860	862	868	875	874	865	857	860	869
Mean .	892	894	897	900	894	880	875	879	885	890	891	890	885	887	889
Mean† .	895	897	902	907	902	887	880	879	883	888	892	893	890	892	893
Mean†† .	897	900	903	905	897	882	881	889	898	905	904	902	892	896	897

† Five international quiet days
†† Five international disturbed days.
§ Instrument under adjustment. Days omitted for means.
..Loss of record.

(Averages for sixty minutes centered at the full hours of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
886	885	888	891	892	892	890	887	887	887	2 10	902	8 56	880	1
865	865	868	871	872	873	872	872	874	870	2 50	886	10 44	**846**	2
862	863	866	869	869	870	872	873	874	**866**	1 56	880	5 32	847	3
866	864	867	869	870	870	871	872	874	867	23 42	875	4 40	852	4†
910	907	911	913	915	916	917	920	923	901	23 10	**924**	5 0	864	5†
901	900	902	905	906	906	906	906	906	**908**	3 16	921	12 32	899	6†
902	902	903	905	907	907	904	905	902	904	8 50	912	5 30	889	7
903	902	905	906	908	907	909	911	911	907	8 34	916	5 16	894	8
893	891	896	898	898	898	899	900	899	901	1 18	918	6 18	884	9
895	891	895	898	898	898	899	901	902	903	7 50	920	15 44	890	10
866	866	869	870	871	872	875	875	873	887	3 18	917	15 20	864	11
873	873	875	875	875	875	874	873	875	877	2 54	889	5 42	866	12
883	883	886	887	887	887	887	888	889	889	3 46	902	12 24	879	13
882	882	884	885	885	885	886	886	886	886	2 52	901	9 40	870	14
880	877	879	882	883	884	884	884	885	882	2 52	902	10 20	866	15†
880	876	877	879	879	880	881	881	883	884	3 14	895	16 52	875	16†
882	881	883	881	879	878	878	878	878	881	3 20	895	12 28	875	17
880	880	884	885	879	874	875	870	870	876	3 4	888	4 54	861	18††
898	897	898	899	899	899	898	899	901	890	8 3	911	1 44	863	19††
889	889	894	894	895	893	895	895	897	898	3 2	909	15 40	884	20
890	890	892	894	894	893	893	894	896	897	8 30	919	12 32	886	21
898	902	902	900	898	894	898	897	897	898	10 24	918	6 10	883	22
899	900	901	900	899	898	898	899	901	896	11 44	907	6 33	878	23††
887	889	891	888	885	885	886	887	888	889	2 28	909	6 0	877	24
881	875	875	876	876	876	878	879	881	881	2 56	895	5 50	871	25
877	874	876	878	879	879	880	880	881	882	2 38	896	16 15	872	26
887	884	883	885	885	887	885	887	886	886	2 54	897	8 10	877	27
894	894	893	892	890	889	889	887	890	895	4 0	914	21 48	885	28
887	887	891	886	885	884	885	886	887	886	2 22	897	11 8	876	29††
880	884	880	882	883	882	883	889	886	886	7 24	906	12 12	875	30††
886	885	887	888	888	886	888	889	889	889					Mean.
887	884	886	888	889	889	890	890	892	888					Mean.†
888	889	890	889	888	886	887	887	887	887					Mean.††

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893	893	894	892	890	890	891	892	894	892	8 18	906	1 24	879	1
895	896	898	897	898	899	899	901	902	895	2 44	904	5 54	878	2
910	910	909	909	908	908	908	908	909	907	8 28	918	5 28	895	3
909	909	912	911	909	907	905	906	906	**912**	9 16	922	21 4	904	4†
894	893	896	896	895	895	896	896	896	897	2 24	910	5 56	882	5
887	887	888	888	889	889	890	889	891	892	2 56	909	5 42	880	6
885	887	888	889	884	887	887	887	889	892	3 0	905	19 26	882	7
884	884	887	889	889	888	890	888	889	894	3 8	914	5 2	880	8
882	882	883	885	886	888	889	891	892	890	3 4	905	5 30	875	9
883	886	886	883	881	880	878	878	876	891	2 56	913	23 10	881	10
878	880	880	880	879	878	877	877	879	880	2 56	897	..	×	11
882	881	883	884	884	884	884	886	888	883	2 50	897	6 30	864	12
896	892	892	893	892	892	891	891	891	897	3 14	919	6 44	877	14†
886	883	884	886	886	884	883	882	882	887	3 18	910	7 46	868	14†
868	864	865	867	868	868	867	867	867	870	3 16	905	6 28	851	15
857	855	856	858	859	859	859	860	861	**854**	2 58	879	6 40	**832**	16
897	896	897	897	898	897	898	898	899	882	23 59	902	6 0	851	17
902	902	904	906	902	905	905	900	899	895	18 24	909	6 10	870	18††
896	899	900	897	896	897	895	896	896	898	8 44	915	5 24	885	19††
880	883	884	885	886	887	887	887	889	..	..	..	..	..	§20††
883	884	886	889	890	893	896	900	905	885	23 59	910	7 0	870	21
905	907	908	909	909	909	909	909	911	911	10 20	27	5 40	897	22
898	903	901	897	895	896	898	901	901	904	3 37	925	6 20	889	23††
877	878	877	874	875	876	875	877	878	887	2 44	906	18 22	870	24††
867	865	867	867	867	868	869	869	872	868	2 18	893	5 2	848	25
861	863	865	865	865	865	866	867	869	866	2 54	885	4 50	840	26
865	865	866	868	869	871	874	877	881	870	3 20	896	5 18	851	27†
889	885	885	887	888	888	889	890	892	888	10 30	898	5 30	868	28†
897	895	895	897	896	896	896	896	896	895	3 40	913	5 36	870	29
882	880	881	882	882	880	879	879	876	885	3 28	900	6 18	869	30
868	868	873	874	874	871	869	869	870	871	4 2	889	12 30	852	31
886	886	887	887	887	887	887	888	889	888					Mean.
889	887	888	889	889	888	888	889	890	891					Mean.†
894	897	897	896	894	896	896	897	897	896					Mean.††

* See footnote on page B-31.
† Five international quiet days.
†† Five international disturbed days.
§ Instrument under adjustment. Days omitted for means.
× Loss of record.

At Colaba, since 1883, a day is classed as (1) a quiet day, or a day of (2) small, (3) moderate, (4) great or (5) very great disturbance, the letters for distinguishing the respective classes being C, S, M, G and VG. For representing intermediate conditions of activity of the small period movements, sub-classifications Ca, Sa and Ma are used. Roughly speaking a storm having a range over 225 γ in the variation of the horizontal force during the first twenty-four hours after its commencement is classed as " Very Great ". It is " Great " if the range is between 150 γ and 225 γ, "Moderate" if the range is between 65 γ and 150 γ and " Small " if the range is less than 65 γ. The range is however not the only criterion used in assigning the character of a storm. The oscillations in the magnetograms are duly taken into account in determining the class to which a particular storm should belong. During the year there was 1 day of " Very Great ", 9 days of " Great ", 30 days of " Moderate " and 167 days of " Small " disturbances. The following table gives a list of principal disturbances recorded during the year. Of the smaller disturbances, only those which showed special features have been included in this table.

PRINCIPAL MAGNETIC DISTURBANCES, 1937.

Date.	Time of beginning. G. M. T.	Duration in hours.	Amount of Sudden Commencement in H. F.	Horizontal force during storm.				Range	Relative magnitude.	Remarks
				Maximum.		Minimum.				
				Time.	Magnitude.	Time.	Magnitude.			
	H. M.		γ	D. H. M.		D. H. M.	γ	γ		
January 7	6 ..	19	..	7 6 12	37677	7 18 54	37528	149	Ma	Commencement gradual.
„ 9	5 1	20	9	9 5 56	37667	9 21 21	37584	83	M	Commencement sudden.
„ 10	9 ..	13	..	10 9 0	37649	10 13 49	37578	71	S	Commencement gradual.
„ 26	7 58	2	24	26 8 4	37728	26 9 30	37668	60	S	Commencement sudden.
„ 27	8 39	16	31	27 8 46	37699	27 21 24	37574	125	M	Do.
„ 30	15 9	10	39	30 15 14	37647	30 17 18	37571	76	S	Do.
February 2	23 5	28	35	2 23 39	37689	3 18 40	37441	248	Ma	Commencement sudden.
„ 9	6 ..	43	..	9 6 52	37667	9 18 40	37530	137	M	Commencement gradual.
„ 18	19 2	26	22	19 6 42	37714	19 16 54	37550	164	M	Commencement sudden.
„ 21	3 29	20	22	21 5 34	37731	21 16 10	37615	116	Sa	Do.
March 1	8 14	36	26	1 8 42	37719	2 17 2	37554	156	M	Commencement sudden.
„ 5	7 28	19	27	5 7 32	37703	5 14 4	37515	188	G	Do.
„ 15	9 42	17	13	15 9 50	37628	15 12 48	37495	133	Ma	Do.
„ 21	17 52	28	11	22 4 48	37727	22 13 4	37532	195	M	Do.
„ 26	20 58	23	22	27 6 22	37715	27 15 8	37537	178	M	Do.
„ 31	3 18	21	35	31 4 4	37696	31 16 58	37541	155	Ma	Do.
April 12	8 54	13	25	12 9 12	37729	12 17 34	37563	166	M	Commencement sudden.
„ 24	12 2	20	36	24 12 6	37692	25 2 12	37503	189	Ma	Do.
„ 25	15 48	43	52	26 18 56	37732	26 23 50	37457	275	G	Do.
„ 27	18 30	29	..	27 19 28	37604	28 11 51	37406	198	G	Commencement gradual.
May 4	16 55	25	17	4 18 22	37660	5 15 42	37507	153	M	Commencement sudden.
„ 9	3 31	20	14	9 6 38	37717	9 13 36	37586	131	S	Do.
„ 27	5 ..	55	..	27 6 42	37697	28 13 48	37552	145	Sa	Commencement gradual.
June 10	5 4	4	66	10 5 54	37801	10 9 26	37712	89	M	Commencement sudden.
„ 13	8 40	15	23	13 8 47	37749	13 13 56	37607	142	Sa	Do.
„ 27	2 46	20	20	27 5 52	37753	27 18 6	37620	133	Sa	Do.
July 14	2 ..	20	..	14 5 22	37729	14 16 48	37556	173	M	Commencement gradual.
„ 19	12 52	32	28	20 6 52	37764	19 20 50	37629	135	M	Commencement sudden.

PRINCIPAL MAGNETIC DISTURBANCES, 1937—*contd.*

Date.	Time of beginning. G. M. T.	Duration in hours.	Amount of Sudden Commencement in H. F.	Horizontal force during storm.				Range.	Relative magnitude.	Remarks.
				Maximum.		Minimum.				
				Time.	Magnitude.	Time.	Magnitude.			
	H. M.			D. H. M.	γ	D. H. M.	γ	γ		
August 1	21 50	24	12	2 2 50	37686	2 9 31	37519	167	M	Commencement sudden.
„ 22	3 8	18	42	22 4 10	37752	22 9 38	37447	305	G	Do.
September 10	15 13	28	12	10 18 18	37694	11 2 18	37594	100	Sa	Commencement sudden.
„ 30	13 46	31	32	30 13 54	37735	30 19 32	37554	181	G	Do.
October 3	11 19	35	16	3 11 26	37685	4 12 50	37552	133	M	Commencement sudden.
„ 7	5 19	39	40	7 6 10	37787	8 11 4	37594	193	G	Do.
„ 9	6 36	35	14	9 8 0	37735	9 15 16	37473	262	V.G.	Do.
„ 11	8 26	40	8	11 10 16	37723	11 15 26	37545	178	Ma	Do.
November 18	4 30	43	..	19 7 30	37717	19 15 46	37563	154	M	Commencement gradual.
„ 29	11 5	14	16	29 11 9	37687	29 16 36	37586	101	M	Commencement sudden.
December 18	0 50	44	6	18 6 10	37732	18 16 30	37542	190	G	Commencement sudden.
„ 23	8 10	12	4	23 8 12	37696	23 18 0	37510	186	G	Do.

Fourier analysis of the diurnal and annual variations of Horizontal Force for the five International Quiet days and the five International Disturbed days during 1937.

Diurnal variation : $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 15° per hour from midnight to midnight (G. M. T.).

Annual variation : $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 30° per average month.

[International Quiet Days.]

Quantity.	Diurnal variation.												Annual Variation.
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	18·6	26·5	25·5	27·4	33·0	32·7	29·5	25·9	26·1	22·1	24·6	12·6	5·5
c_2	8·3	11·9	10·5	12·4	14·5	16·3	15·0	13·7	13·2	10·7	11·0	4·3	5·5
c_3	5·3	5·6	5·8	5·7	4·6	4·6	5·7	5·6	6·8	5·3	4·9	3·8	5·0
c_4	2·3	1·4	2·2	1·6	1·1	1·3	1·4	1·3	3·8	1·8	1·2	2·5	2·3
c_1/c_2	2·2	2·2	2·4	2·2	2·3	2·0	2·0	1·9	2·0	2·1	2·2	2·9	1·0
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	340 47	339 40	338 40	346 52	343 13	353 53	346 46	339 44	342 13	344 24	349 50	350 7	255 5
φ_2	240 15	236 46	250 34	253 29	247 20	260 40	253 43	229 42	245 38	249 36	253 43	238 39	242 44
φ_3	154 6	140 17	156 25	166 27	159 38	175 52	170 46	143 26	170 28	178 36	181 31	166 11	242 22
φ_4	48 31	68 7	59 39	116 44	144 31	169 52	89 12	56 11	94 33	60 11	79 19	51 5	123 29

[International Disturbed Days.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	29·2	30·3	37·1	8·3	11·1	29·3	27·3	32·2	22·1	23·5	35·1	38·3	35·2
c_2	7·7	5·3	22·1	27·4	9·3	13·8	12·2	14·7	11·6	15·4	9·9	12·3	11·2
c_3	7·7	6·2	3·9	8·6	3·2	3·8	5·2	6·9	12·3	1·0	4·2	4·2	3·6
c_4	2·7	1·5	3·2	4·3	1·1	3·6	2·2	1·2	1·9	3·8	1·9	2·5	17·5
c_1/c_2	3·8	5·7	1·7	0·3	1·2	2·1	2·2	2·2	1·9	1·5	3·5	3·1	3·1
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	344 9	348 30	19 48	279 49	22 25	7 40	9 6	46 49	318 23	358 28	9 28	9 6	201 48
φ_2	256 47	168 22	235 59	241 41	216 49	247 58	240 56	280 5	234 50	199 21	228 2	215 51	151 39
φ_3	152 48	165 43	78 26	192 43	101 25	151 13	137 12	198 44	146 35	226 38	142 20	165 14	283 16
φ_4	346 7	331 40	170 25	103 37	1 5	208 29	70 13	11 40	94 12	95 11	148 44	335 25	218 52

Fourier Analysis of the diurnal and annual variations of Vertical Force for the five International Quiet days and the five International Disturbed days during 1937.

Diurnal variation : $\triangle Z = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 15° per hour from midnight to midnight (G. M. T.)

Annual variation : $\triangle Z = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 30° per average month.

[International Quiet Days.]

Quantity.	Diurnal variation.												Annual variation.
	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	4·3	5·1	6·9	4·9	15·4	13·1	14·0	10·6	14·1	5 1	2·0	3·2	12·6
c_2	5·7	5·5	4·0	4·0	13·1	13·7	12·2	10·9	9·6	5·2	1·7	6·1	4·2
c_3	6·5	6·7	4·2	4·8	9·0	10·1	7·6	8·2	7·7	5·0	2·2	4·7	1·7
c_4	4·5	3·8	3·3	1·8	2·5	1·5	0·8	1·4	3·5	3·4	3·6	2·3	3·6
c_1/c_2	0·8	0·9	1·7	1·2	1·2	1·0	1·1	1·0	1·5	1·0	1·2	0·5	3·0
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	68 25	147 28	130 2	121 11	156 45	152 00	166 20	157 57	136 37	134 8	88 50	74 21	326 22
φ_2	61 54	119 55	64 1	69 58	94 26	65 40	92 49	87 13	64 57	107 57	141 52	43 40	307 14
φ_3	333 7	7 40	337 27	338 23	2 22	336 20	340 40	343 38	348 34	22 6	58 27	324 52	312 39
φ_4	255 22	248 29	241 4	201 37	277 33	249 40	114 12	260 4	289 25	299 37	318 1	266 17	252 32

[International Disturbed Days.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	2·8	4·3	9·3	10·5	14·2	8·3	10·4	12·7	16·8	15·5	1·8	0·9	11·7
c_2	5·3	2·4	5·4	11·2	11·2	7·1	7·8	9·4	13·3	4·1	0·4	3·9	6·2
c_3	7·3	3·8	7·8	10·0	7·9	6·3	4·5	6·5	11·1	0·1	2·2	5·1	6·6
c_4	6·1	3·7	4·3	2·5	2·2	1·4	1·4	2·4	4·0	2·4	2·0	4·2	8·6
c_1/c_2	0·5	1·8	1·7	0·9	1·3	1·2	1·3	1·4	1·3	3·8	4·5	0·2	1·9
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	166 16	129 12	153 18	160 48	154 10	120 55	158 52	150 52	148 20	161 46	209 16	175 11	303 21
φ_2	82 16	110 45	67 24	116 13	71 19	56 12	87 17	88 17	79 33	98 54	188 58	99 20	303 11
φ_3	351 3	354 24	340 53	1 19	342 8	355 1	1 48	8 0	354 14	2 29	52 46	10 17	35 4
φ_4	248 12	258 45	238 1	261 0	301 24	319 21	43 19	317 31	286 31	281 21	305 26	268 47	180 52

TABLE I.

Reduction Factor :—2·00

(IN VOLTS PER METRE.)

Hours B.M.T. Date.	January.				February.				March.			
	2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21
1	179	411	113	219	..	..	93	123	..	324	105	44
2	280	219	113	328	180	266	74	67	..	193	79	121
3	245	228	..	233	61	140	201	79	70	188	217	105
4	206	201	..	192	294	276	..	118	88	276	57	178
5	153	219	96	123	295	394	144	70	79	198	88	98
6	205	236	96	153	233	214	101	87	255	175	96	89
7	179	140	..	166	189	249	81	105	77	177	88	59
8	368	219	..	179	..	219	101	89	46	171	21	68
9	217	198	109	157	131	236	87	101	149	283	35	92
10	241	168	94	175	144	184	101	144	..	..	79	107
11	144	372	22	143	61	149	88	105	83	..	66	66
12	172	350	79	217	35	253	89	129	101	207	48	39
13	219	193	149	306	60	212	115	115	92	105	—44	77
14	346	..	114	197	236	223	115	153	136	144	54	89
15	198	198	135	193	210	289	304	198	99	241	..	136
16	271	162	72	147	197	196	184	70	109	131	88	105
17	270	163	89	214	68	184	145	124	74	376	133	218
18	144	341	105	173	131	114	166	83	86	306	98	77
19	109	193	101	152	241	254	109	92	66	201	87	83
20	149	411	131	265	162	166	118	109	44	157	92	131
21	236	626	192	287	157	136	98	70	285	131	88	124
22	445	438	143	195	214	197	121	88	101	86	72	109
23	241	166	165	188	256	325	123	121	92	303	71	121
24	214	311	158	201	217	352	82	48	96	121	87	151
25	131	302	203	236	269	284	103	77	105	162	118	79
26	354	481	137	285	70	136	53	83	61	201	..	105
27	376	235	137	171	53	..	..	96	94	359	315	78
28	147	175	114	182	289	425	114	144	92	179	96	161
29	315	240	112	280					245	548	40	385
30	79	315	144	109					157	124	219	105
31	..	..	88	..					63	150	..	232
Mean†	228	273	119	202	161	234	120	103	109	214	98	117

Hours B.M.T. Date.	July.				August.				September.			
	2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21
1	204	174	204	171	..	189	194	184	157	154	65	131
2	144	179	114	211	209	99	99	181	..	134	131	149
3	181	173	154	184	177	154	..	127	144	99	95	147
4	179	178	154	214	109	204	114	135	159	149	169	161
5	189	123	..	..	95	155	70	69	..	120	111	131
6	..	164	164	144	59	114	92	144	144	140	109	104
7	121	153	Z—	251	139	95	154	111	129	115	65	90
8	167	164	99	195	200	159	..	..	75	139	174	30
9	48	—366	195	267	..	204	184	171	—81	163	104	119
10	195	—167	119	191	169	144	139	124	..	119	119	119
11	127	159	—24	155	138	134	164	221	55	—657	139	139
12	139	—72	127	24	147	167	348	159	167	109	129	144
13	167	—107	—80	111	199	164	..	..	..	119	137	134
14	175	239	175	139	..	104	40	144	134	129	164	119
15	199	199	144	155	144	129	121	104	129	100	82	144
16	239	219	199	199	154	124	..	130	129	99	134	—99
17	219	187	164	104	179	164	129	90	149	82	75	109
18	..	92	55	55	131	52	131	191	..	98	116	169
19	85	209	204	204	104	65	117	121	50	139	101	129
20	209	198	179	159	121	125	121	119	50	179	±Z	119
21	167	194	154	141	75	80	119	147	497	±Z	99	164
22	—15	164	48	72	139	85	134	124	70	±Z	80	164
23	179	179	119	36	149	167	139	174	249	±Z	137	209
24	40	111	111	159	134	70	55	159	99	187	99	199
25	139	155	195	151	105	169	154	124	99	144	124	99
26	159	115	119	139	169	179	145	161	149	299	—1,343	99
27	200	144	169	125	131	129	..	..	50	129	164	398
28	184	..	..	..	..	68	..	..	119	109	111	134
29	..	164	48	166	..	--73	124	134	164	184	..	Z—
30	60	174	169	214	179	169	119	129	179	284	80	179
31	214	..	..	..	154	179	131	139				
Mean †	160	168	147	155	143	135	133	141	139	143	115	144

† Mean from all positive readings.

.. Loss of record.

Note.—The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+ Indeterminate, positive value; Z— Indeterminate, negative value; Z ± Indeterminate in magnitude and sign.

TABLE I—*contd.*

Reduction Factor :—2·00. (IN VOLTS PER METRE.)

April.				May.				June.				Hours B.M.T.
2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21	Date.
31	337	67	101	66	53	98	103	..	..	..	149	1
153	431	61	153	88	166	88	91	169	124	131	147	2
61	315	—35	124	70	274	70	83	161	117	119	144	3
116	280	39	109	66	118	88	81	169	101	125	155	4
74	263	79	129	33	121	96	78	134	89	109	104	5
297	296	77	69	42	89	74	92	107	99	144	149	6
74	157	70	79	101	107	115	96	124	124	117	139	7
34	165	88	92	101	153	115	131	101	119	100	159	8
44	153	89	101	22	140	109	127	114	100	107	129	9
123	109	87	88	79	175	70	89	121	109	129	114	10
70	118	53	92	..	..	53	109	100	121	80	131	11
25	157	..	57	101	59	63	88	—398	149	139	..	12
88	241	61	106	86	54	88	118	269	141	188	149	13
72	101	64	83	89	282	..	89	141	170	199	119	14
53	61	52	44	185	175	123	133	189	161	181	164	15
28	63	53	54	226	132	121	131	179	112	212	Z+	16
77	57	70	59	118	210	123	115	..	Z—	..	112	17
219	88	56	219	112	105	131	157	338	231	119	131	18
162	78	48	81	144	118	127	114	199	179	119	119	19
96	133	98	101	70	133	144	159	159	—167	12	191	20
88	87	89	69	162	149	144	151	179	183	4	127	21
33	118	123	87	149	144	115	131	358	99	131	203	22
56	110	88	54	123	101	96	107	199	219	199	203	23
105	112	101	114	88	109	88	95	203	159	60	103	24
70	79	118	98	86	81	88	101	—370	231	219	219	25
127	105	95	168	69	95	95	98	179	155	172	144	26
212	306	66	114	72	88	74	88	230	219	209	159	27
162	95	69	87	54	81	89	96	149	157	169	152	28
28	83	109	124	60	104	105	131	199	159	199	169	29
54	254	89	107	89	101	127	123	184	174	194	155	30
				109	115	127	140					31
94	165	77	99	95	128	101	111	179	148	139	148	Mean †

October.				November.				December.				Hours B.M.T.
2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21	2—3	8—9	14—15	20—21	Date.
149	308	279	149	313	174	323	298	179	159	187	187	1
259	279	99	1015	174	224	239	333	164	171	139	251	2
372	423	169	119	239	259	78	294	468	215	80	388	3
99	468	Z—	40	139	154	290	398	214	234	313	284	4
20	161	114	85	209	141	124	264	239	244	157	298	5
60	219	114	98	111	159	104	159	348	237	109	277	6
99	131	174	..	348	249	199	174	388	234	60	313	7
..	209	184	259	214	249	157	313	211	259	139	363	8
264	154	121	134	249	313	55	333	281	284	169	383	9
..	108	95	114	264	390	348	204	217	231	134	200	10
82	224	119	119	303	343	199	264	249	279	114	129	11
..	294	189	318	249	184	..	179	234	231	109	119	12
139	333	101	111	259	239	184	250	65	313	114	139	13
154	139	119	99	251	237	234	383	159	169	55	189	14
129	171	104	139	244	244	189	358	149	119	90	209	15
139	149	99	55	323	244	155	386	154	149	128	119	16
80	207	62	168	169	194	109	366	164	149	65	80	17
211	308	99	279	265	244	249	169	269	249	249	184	18
254	211	..	284	247	209	473	294	109	298	100	119	19
174	107	207	348	209	204	159	254	151	294	129	159	20
149	194	51	229	209	199	137	209	189	289	99	144	21
169	179	50	378	252	121	119	211	189	403	129	179	22
209	144	70	239	234	237	144	239	199	169	99	80	23
328	294	119	219	204	374	119	297	159	158	105	109	24
209	249	169	279	169	224	99	268	154	99	219	129	25
68	229	137	..	259	154	99	194	100	90	75	109	26
..	333	151	251	254	159	90	154	80	139	70	70	27
179	398	109	338	289	224	119	413	60	179	55	55	28
244	219	119	139	151	244	159	227	100	164	49	35	29
99	261	82	239	189	149	80	179	99	98	58	60	30
129	249	99	260					129	99	38	50	31
165	237	124	224	233	217	174	269	189	207	117	175	Mean †

† Mean from all positive readings.

..Loss of record.

Note.—The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+ Indeterminate, positive value; Z— Indeterminate, negative value; Z ± Indeterminate in magnitude and sign.

TABLE II. HOURLY MEANS (FROM POSITIVE AND NEGATIVE VALUES) FOR EACH MONTH.

COMPLETE DAYS ONLY. (IN VOLTS PER METRE..

Hours B. M. T.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year.	Wet period May to October.	Dry period November to April.
0— 1	294	197	113	101	100	152	187	143	143	210	290	211	178	156	201
1— 2	261	192	106	99	96	165	146	144	143	199	252	211	168	149	187
2— 3	235	163	113	97	96	135	138	130	111	173	228	189	151	131	171
3— 4	219	160	129	106	107	101	113	138	121	160	189	173	143	123	163
4— 5	204	157	156	114	115	103	108	139	118	152	201	165	144	123	166
5— 6	220	167	184	138	130	82	123	133	110	182	216	172	155	127	183
6— 7	241	189	188	157	151	108	127	124	107	211	223	178	167	138	196
7— 8	303	207	220	154	144	92	97	124	53	226	225	214	172	123	221
8— 9	290	235	220	165	126	133	114	136	76	232	217	207	179	136	222
9—10	276	229	191	136	116	144	131	142	110	224	219	201	177	145	209
10—11	252	183	171	102	109	155	155	133	108	198	219	184	164	143	185
11—12	202	153	129	94	110	141	159	129	127	191	219	173	152	143	162
12—13	182	144	101	89	108	135	146	129	118	139	227	151	139	129	149
13—14	113	146	98	83	106	130	158	129	129	119	210	118	128	129	128
14—15	117	125	100	73	101	141	133	136	121	117	171	117	121	125	117
15—16	119	111	24	71	101	132	91	126	107	134	155	114	107	115	99
16—17	122	115	27	76	102	132	116	135	106	93	156	110	107	114	101
17—18	147	119	81	87	106	134	148	142	156	113	173	119	127	133	121
18—19	170	128	95	105	115	145	163	130	33	118	190	133	127	117	137
19—20	185	120	113	105	117	151	140	137	114	208	198	147	145	145	145
20—21	210	102	120	100	112	149	153	140	125	196	276	175	155	146	164
21—22	265	114	115	87	111	152	151	133	154	211	332	211	170	152	187
22—23	294	139	119	87	108	159	150	134	152	217	319	314	174	153	195
23—24	308	173	125	133	104	152	133	140	171	195	331	213	181	149	214
Mean .	218	157	127	107	112	134	137	134	117	176	227	171	151	135	168

TABLE III. POTENTIAL GRADIENT (VOLTS PER METRE). HOURLY MEANS FOR EACH MONTH.

TEN SELECTED QUIET DAYS.

Hours B. M. T.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Year	Wet period May to October.	Dry period November to April.
0— 1	261	193	118	79	94	149	182	137	150	160	273	186	165	145	185
1— 2	238	201	111	88	97	163	185	139	145	149	223	191	161	146	175
2— 3	207	165	124	77	97	156	186	124	133	141	218	169	150	139	160
3— 4	183	130	130	98	107	145	168	131	123	149	193	172	144	137	151
4— 5	186	144	145	125	116	145	168	126	116	145	189	154	147	136	157
5— 6	212	160	180	133	139	141	181	115	122	181	201	167	161	147	175
6— 7	229	180	210	151	147	127	175	119	121	197	211	159	169	148	190
7— 8	283	210	209	138	143	132	195	135	139	187	209	172	179	155	203
8— 9	252	240	194	138	121	136	183	137	124	217	227	187	180	153	206
9—10	285	228	172	118	111	151	181	140	132	225	211	181	178	157	199
10—11	251	170	159	110	115	162	185	125	131	189	213	175	165	151	180
11—12	215	146	119	91	110	163	167	124	113	163	203	162	148	140	156
12—13	118	117	105	90	113	160	158	131	125	135	216	130	133	137	129
13—14	101	101	97	89	105	144	168	119	130	111	238	124	127	129	125
14—15	113	98	93	79	100	146	176	117	109	110	215	105	122	126	117
15—16	111	93	88	77	95	136	191	122	115	127	182	92	119	131	107
16—17	120	107	87	79	97	130	180	133	123	128	159	93	120	132	107
17—18	139	112	91	80	104	135	189	130	123	144	193	102	129	137	119
18—19	166	123	96	90	113	137	190	128	128	165	214	117	139	143	134
19—20	185	121	101	91	117	145	179	132	136	181	229	139	146	149	144
20—21	202	94	105	91	113	147	174	127	130	209	291	169	154	150	159
21—22	249	109	114	82	111	149	177	123	133	233	346	191	168	154	182
22—23	267	107	110	78	103	156	169	123	136	221	313	203	165	150	180
23—24	275	143	111	71	105	161	160	133	127	208	325	221	170	149	191
Mean .	202	145	128	98	111	147	178	128	128	170	229	157	152	144	160

TABLE IV. ELECTRICAL CHARACTER OF EACH DAY AND APPROXIMATE DURATION OF NEGATIVE POTENTIAL GRADIENT.

1. Electrical Character ; 2. Duration in hours of *negative* potential gradient.

Date.	Jan.		Feb.		Mar.		Apr.		May.		June.		July.		Aug.		Sep.		Oct.		Nov.		Dec.	
	1		1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2
1	0	..	..	..	..	..	1	0·3	0	..	..	..	1	0·1	..	..	1	0·5	0	..	0	..	0	..
2	0	..	0	..	..	..	0	..	0	..	0	..	1	0·1	0	..	1	0·1	1	2·0	0	..	0	..
3	0	..	0	..	1	2·8	1	2·0	0	..	0	..	0	..	0	..	0	..	1	2·7	0	..	0	..
4	0	..	0	..	0	..	1	0·7	0	..	0	..	0	..	0	..	0	..	1	2·3	0	..	0	..
5	1	0·1	0	..	0	..	0	..	1	0·1	0	..	..	..	0	..	0	..	0	..	0	..	0	..
6	0	..	0	..	0	..	0	..	0	..	0	..	..	..	1	0·1	1	0·1	0	..	0	..	0	..
7	0	..	0	..	0	..	0	..	0	..	0	..	2	3·0	1	0·6	0	..	0	..	0	..	0	..
8	0	..	..	..	1	1·0	0	..	0	..	0	..	1	1·6	..	..	1	0·9	0	..	0	..	0	..
9	0	..	0	..	..	..	0	..	0	..	0	..	2	6·5	..	..	..	..	0	..	0	..	0	..
10	0	..	0	..	..	..	1	0·1	..	..	0	..	2	7·6	1	0·1	..	..	0	..	0	..	0	..
11	1	0·3	1	1·5	..	..	0	..	..	..	..	..	1	1·0	1	0·1	2	3·6	0	..	0	..	0	..
12	0	..	0	..	0	..	0	..	0	..	2	5·2	2	3·3	1	0·3	1	0·1	..	..	0	..	0	..
13	0	..	0	..	2	3·8	1	0·3	0	..	0	..	2	4·9	..	..	0	..	0	..	0	..	0	..
14	..	..	0	..	1	2·1	0	..	1	0·1	0	..	1	1·9	..	..	0	..	0	..	0	..	0	..
15	0	..	0	..	0	..	0	..	0	..	1	0·1	1	0·6	1	0·1	1	0·1	0	..	0	..	0	..
16	0	..	0	..	0	..	1	0·1	0	..	1	1·0	1	0·4	1	0·1	1	1·3	0	..	0	..	0	..
17	0	..	0	..	0	..	0	..	0	..	..	..	1	0·1	0	..	1	0·6	0	..	0	..	0	..
18	0	..	0	..	0	..	1	0·1	0	..	2	9·3	..	..	1	0·7	1	0·1	0	..	0	..	0	..
19	0	..	0	..	0	..	0	..	0	..	1	2·2	1	0·6	1	0·9	0	..	..	..	0	..	0	..
20	0	..	0	..	1	0·1	0	..	0	..	2	6·4	1	1·2	0	..	2	3·7	0	..	0	..	0	..
21	0	..	0	..	0	..	0	..	0	..	1	2·7	1	1·1	0	..	2	5·1	0	..	0	..	0	..
22	0	..	0	..	1	1·1	0	..	0	..	1	2·5	2	4·1	0	..	2	3·4	1	0·1	0	..	0	..
23	0	..	0	..	1	0·2	0	..	0	..	0	..	1	0·9	0	..	1	2·8	0	..	0	..	0	..
24	0	..	0	..	0	..	0	..	0	..	1	1·4	1	0·5	1	0·3	1	0·5	0	..	0	..	0	..
25	0	..	0	..	0	..	0	..	0	..	1	1·5	1	0·1	0	..	1	2·8	0	..	0	..	0	..
26	0	..	0	..	0	..	0	..	0	..	1	2·5	1	0·3	0	..	2	4·0	0	..	0	..	0	..
27	0	..	..	..	0	..	0	..	0	..	1	0·3	1	0·7	..	..	1	1·0	0	..	0	..	0	..
28	0	..	0	..	0	..	1	0·1	0	..	0	..	..	..	0	..	0	..	0	..	0	..	0	..
29	0	..			1	1·3	0	..	0	..	1	0·1	..	..	1	1·1	2	4·7	0	..	0	..	0	..
30	0	..			1	0·4	0	..	0	..	1	0·1	1	0·3	0	..	1	2·3	0	..	0	..	0	..
31	..	..			0	..			0	..			..	..	1	0·3			0				0	..
Total .		0·4		1·5		12·8		3·7		0·2		35·3		40·9		4·7		37·7		7·1		0·0		0·0
No. of days used.		29		25		26		30		29		27		25		25		28		29		30		31
Mean .		0·0		0·1		0·5		0·1		0·0		1·3		1·6		0·2		1·3		0·2		0·0		0·0

Annual Values :—Character	0	1	2	Duration of negative potential gradient	Hours.	Total number of days.	Mean Duration.
No. of days	239	79	16		144·3	334	0·4

STATION—COLABA OBSERVATORY, BOMBAY.

Lat. 18° 54′ N. *Long.* 72° 54′ E. *Height above M. S. L.* 6 metres.

Lithologic foundation : Trap Rock.

Instruments :—Milne-Shaw seismographs, North-South (N) and East-West (E) components, installed in an underground constant temperature room. Photographic registration.

INSTRUMENTAL CONSTANTS.

Component.	Steady mass (Kg.)	T. (sec.).	Vm	ε	Paper speed (mm./min.).	Period for which the constants apply.
N	0·45	12	250	20 : 1	8	Jan.—June.
	,,	,,	,,	15 : 1	,,	July—Sept.
	,,	,,	,,	33 : 1	,,	Oct.—Dec.
E	,,	,,	350	100 : 1	,,	Jan.—Aug.
	,,	,,	,,	20 : 1	,,	September.
	,,	,,	,,	77 : 1	,,	October.
	,,	,,	,,	20 : 1	,,	Nov.—Dec.

TABLE D_2.

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Jan. 4	N,E	e	23 7 42	...	...	...	Time uncertain due to congestion of lines.
	N	e	13 30	...	...	...	
,, 5	E	iP	0 5 46	...	...	(7,200)	Slight. Distant. Deep focus ? Epc : 4°S., 135°E., North-West New Guinea.
	N,E	iS	14 34	...	...	...	
	N,E	F	1 15 36	...	...	...	
, 5	E	iP	4 57 12	...	...	(7,235)	Slight. Deep focus ? Near Northwest New Guinea.
	N,E	e	5 1 8	...	...	...	
	N,E	eS	6 2	...	...	...	
,, 5	N,E	e	11 18 30	...	...	...	Slight. Epc : North Riu Kiu Islands (Chiufeng).
	E	e	21 18	...	...	...	
	N,E	i	26 11	...	...	...	
	N	i	27 18	...	...	...	
,, 5	N	e	17 4 32	..	..	...	
	N,E	e	7 23	...	...	...	
	N,E	F	25 ...	...	...	...	
,,	N,E	eP	21 47 25	...	...	6,020	Slight. Epc : 31°N., 132°E. Off South Japan. O : 21 h. 38 m. 0s.
	N,E	S	55 7	...	...	...	
	N	Mn	22 17 32	11	5	...	
	E	Mn	16 34	11	4	...	
	N,E	F	23 1 ...	...	...	...	
7	N,E	iP	6 22 24	...	...	6,750	Slight. Epc : 35°·8N., 141° E., Japan. O : 6h. 12m. 15s.
	N,E	eS	30 48	...	...	...	
	N,E	F	7 27 ...	...	...	...	
1937.							
Jan. 7	N,E	iP	13 26 25	...	...	2,955	Great. China. Epc : 35°N 96°·5 E. O : 13h. 20m. 42s. 35°·5N., 97°·5E. (U. S. C. G.S.) 36°·1 N., 98°·6E. (J S. A.)
	N,E	PP	27 1	...	...	...	
	N,E	iS	31 5	...	...	...	
	N,E	SS	32 17	...	..	...	
	N,E	L	34 ...	...	...	...	
	N	Mn	39 ...	8	>44	...	
	E	Mn	39 ...	8	>357	...	
	N	F	17 32 ...	...	...	...	
	E	F	45 ...	...	...	...	
Jan. 7	N,E	e	17 56 ...	...	...	...	Aftershock of the previous great shock?
	N,E	e	18 00 23	...	...	...	
	N	Mn	3 13	7	6	...	
	N,E	F	29 ...	...	...	...	
,, 12	N,E	e	5 49 ...	...	...	...	Feeble.
	N,E	e	51 ...	...	...	...	
	N,E	e	53 23	...	...	...	
	E	Mn	55 29	...	...	...	
	N,E	F	6 10 ...	...	...	...	
,, 15	N,E	e	5 25 8	...	...	...	
	N,E	e	28 0	...	...	...	
,, 16	E	eP(?)	13 22 30	...	...	2,480 ?	Feeble. Felt strongly at Salona and Gauhati and feebly at Tezpur, Naya Dumka and Shillong.
	E	i	23 2	...	...	...	
	N,E	S	26 34	...	...	...	
	N,E	L(?)	28 30	...	...	...	
	N,E	F	41 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Jan. 16	N,E		19 28 10	...	...	...	Feeble. Near.
	N,E	e	28 32	...	...	...	
	N	Mn	30 32	...	...	...	
	E	Mn	30 39	...	...	...	
	N,E	F	45 ...	...	...	...	
,, 19	N	Mn	13 49 25	...	...	...	Feeble. Distant.
	E	Mn	50 30	...	...	...	
,, 23	N,E	P	11 8 14	...	...	9,220	Slight.
	N,E	S	18 35	...	...	...	Surface waves poor.
	N,E	PS	19 23	...	...	...	Near Caroline Islands?
	E	SS	24 13	...	...	...	
	N	F	12 49 ...	...	...	...	
	E	F	13 00 ...	...	...	...	
,, 25	N	eP	6 47 21	...	...	10,400	Moderate. Epc: 10°·6S., 163°·3 E. (J. S. A.) 12°S., 164°E. (U. S. C. G. S.).
	E	iP					
	N,E	iSKS	57 53	...	...	...	
	N,E	S	58 35	...	...	...	
	E	PS	59 30	...	...	...	
	N,E	SS(?)	7 6 0	...	...	...	
	N,E	L	22 ...	...	...	...	
	N	Mn	37 00	16	17	...	
	E	Mn	37 4	15	12	...	
	N,E	F	10 6 ...	...	...	...	
,, 28	E	e	11 45 0	...	...	...	Feeble.
	N	e	48 43	...	...	...	
	N,E	F	12 20 ...	...	...	...	
,, 29	E	iP	17 36 28	...	...	(7,300)	Slight. In the region of Marianne Islands (Chiufeng).
	N	eP (?)					
	N,E	e	36 43	...	...	...	
	N,E	iS	45 21	...	...	...	
	N,E	e	45 51	...	...	...	
	N,E	F	18 31 ...	...	...	...	
Feb. 1	N,E	e	00 4 ...	...	...	...	
	N,E	F	19 ...	...	...	...	
,, 1	N,E	e	9 25 50	...	...	...	Feeble.
	N,E	e	35 58	...	...	...	
	N,E	F	10 29 ...	...	...	...	
,, 2	N,E	e	16 22 ...	...	...	...	
	N,E	F	17 18 ...	...	...	...	
,, 5	N,E	e	11 54 28	...	...		Feeble.
	N,E	e	58 9	...	...	...	
	N,E	F	12 24 ...	...	...	...	
,, 8	N,E	e	8 45 ...	...	...	...	Feeble.
	N,E	e	52 ...	...	...	...	
	N,E	F	9 22 ...	...	...	...	

Date.	Com	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Feb. 12	N,E	P	5 4 50	...	...	6,280	Slight.
	E	PcP(?)	5 49	...	...	..	
	N,E	e	7 51	...	...	..	
	N,E	S	12 46	...	...	...	
	E	ScS	14 53	...	...	...	
	N,E	L	22 ...	...	...	...	
	N,E	F	Mixed up with the next shock.				
,, 12	N,E	eP	5 39 22	...	...	3,245	Slight. Epc: Gobi desert.
	N,E	iS	44 25	...	...	...	
	N,E	L	48 ...	...	...	...	
	N	Mn	50 41	11	9	...	
	E	Mn	52 13	7	4	...	
	N,E	F	6 17 ..	...	...	...	
,, 13	E	e	11 6 44	...	...	...	Feeble.
	N,E	e	10 4	...	...	...	
	E	F	30 ...	...	...	...	
,, 14	E	e	20 11 ...	...	...	...	
,, 15	E	e	1 31 ...	...	...	...	Feeble.
	N,E	e	39 14	...	...	...	
	E	F	56 ...	...	...	...	
,, 17	E	M	9 45 ...	...	...	...	Feeble.
,, 19	N,E	i	10 58 30	...	...	...	Feeble.
	E	i	11 03 41	...	...	...	
	E	i	04 15	...	...	...	
	E	F	21 ...	...	...	...	
,, 21	N,E	iP	7 13 34	...	...	7,380	Great. Epc: 45.°2N., 148.°6E. (J. S. A.)
	N,E	PcP	14 13	...	...	...	
	E	e	17 40	...	...	...	
	N,E	eS	22 30	...	...	...	
	N,E	PS	23 6	...	...	...	
	N,E	ScS	23 40	...	...	...	
	N,E	SS	27 23	...	...	..	
	N,E	L	35 ...	...	...	...	
	N	Mn	43 45	19	27	...	
	E	Mn	46 47	16	132	...	
	N,E	F	Mixed up with the following after shock.				
,, 21	N,E	eP(?)	11 3 7	...	...	...	Feeble.
	N,E	eS(?)	12 12	...	...	...	Aftershock of the previous great shock?
	N	F	12 6 ...	...	...	...	
	E	F	29 ...	...	...	...	
,, 22	N,E	e	3 4 58	...	...	...	Feeble.
	E	F	4 22 ...	...	...	...	
,, 22	E	e	4 50 ...	...	...	..	Feeble.
	E	F	5 13 ...	...	...	.	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
Feb. 22	N,E	e	13 34 31	...	...	...	Feeble.
	N,E	e	44 4	...	...	...	
	E	F	14 52 ...	...	...	...	
,, 23	E	iP	0 14 43	...	...	2,765	Feeble. Epc : Near 26.°5N. 98.°5E., North-East Frontier of Burma.
	N,E	iS	19 10	...	...	...	
	N, E	F	Mixed up with following shock.				
,, 23	N, E	iP	0 59 10	...	...	7,555	Slight. △ from PP-P.
	E	PP	1 1 32	...	...	...	Aftershock of 21d 7h.(?).
	E	i	3 33	...	...	...	
	N, E	eS(?)	8 18	...	...	...	
	E	i	12 14	..	...	...	
	E	F	3 19 ...	...	...	...	
,, 2	N,E	e	9 4 10	...	...	...	Slight.
	E	Mn	11 38	...	...	...	
	N,E	F	25 ...	...	...	...	
,, 23	N,E	e	14 2 38	...	...	...	Feeble.
	E	e	4 32	...	...	...	
	E	F	42 ...	...	...	...	
	N	F	55 ...	...	...	...	
,, 25	N,E	e	0 59 ...	...	...	...	Feeble.
	N,E	F	1 40 ...	...	...	...	
,, 25	N,E	e	20 2 ...	...	...	...	Feeble.
	N,E	e	7 3	...	...	...	
	N,E	F	36 ...	...	...	...	
,, 26	N,E	e	4 54 ...	...	...	...	Feeble.
	N,E	F	5 29 ...	...	...	...	
,, 27	N,E	e	1 25 58	...	...	...	
	E	F	2 21 ...	...	...	...	
,, 27	N,E	e	14 51 23	...	...	...	Feeble.
	N,E	e	59 38	...	...	...	
	N	F	15 30 ...	...	...	...	
Mar. 4	N,E	e	7 36 ...	...	...	...	Feeble.
	N,E	F	8 20 ...	...	...	...	
,, 9	N,E	e	8 21 17	...	...	...	Feeble. Near.
	N,E	e	23 37	...	...	...	
	N,E	i	24 10	...	...	...	
	N,E	e	25 26	...	...	...	
	N,E	F	44 ...	...	...	...	
,, 9	N,E	e(P_1^1)	15 59 56	...	...	16.000	Slight. △ from. (PPS—P_1^1) Epc.: 8°·9N., 83·°8W H—15h. 40m. 20s. (U. S. C. G. S.) Epc : 10°·6N., 83°·4W (J. S. A.).
	N	e	16 3 19	...	...	...	
	N	i	6 16	...	...	...	
	N,E	e(PPS)	16 0	...	...	...	
	N,E	L(?)	48 ...	...	...	...	
	N,E	F	18 25 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remar.s.
1937.			H. M. S.	Sec	μ	Km.	
Mar. 6	N,E	e(P)	20 24 1	...	...	2,245	P in minute eclipse Slight. Epc. 29°·0N., 92°·5E.
	N,E	e(S)	27 46	...	...	...	
	N,E	e	29 33	...	...	...	
	N,E	i	30 23	...	...	...	
	N,E		31 37	...	...	...	
	E	Mn	33 45	...	...	...	
	N	F	50 ...	...	...	...	
	E	F	21 00 ...	...	...	...	
,, 11	NE,	M	18 9 ...	...	...	...	Seismic activity.
,, 12	N	eP } (?)	9 28 18	...	...	(5,000)	Slight.
	E	iP }					
	N,E	PPP	30 36	...	...	...	
	E	eS }	35 2	...	...	...	
	N	iS }					
	N,E	SS	37 48	...	...	...	
	N,E	ScS	38 18	...	...	...	
	N,E	L	42 ...	...	...	...	
	N	Mn	47 27	...	...	...	
	E	F	11 14 ...	...	...	...	
	N	F	36 ...	...	...	...	
,, 13	N,E	e	12 45 ...	...	...	...	
	N,E	F	13 20 ...	...	...	...	
,, 14	N,E	iP_1'	12 15 29	...	...	15,950	Slight. Epc: 23.°8 S. 71.°0W. O: 11h. 56m. 0s. (J. S. A.) 25° S., 70° W. O: 11h. 55m. 48s. (U. S. C. G. S.) Minor Damages reported, Taltal, Chile.
	N,E	i	15 45	...	...	...	
	E	eSKKS	25 21	...	...	...	
	E	i	25 33	...	...	...	
	N,E	e	29 16	...	...	...	
	E	e(SS)	37 9	...	...	...	
	N,E	L	59 ...	...	...	...	
	E	Mn	13 18 16	20	4	...	
	N,E	F	14 18 ...	...	...	...	
,, 15	N,E	eP(?)	6 3 0	...	...	4,120(?)	P in minute eclipse. Slight. Epc: Sumatra.
	N,E	ePP	4 34	...	...	...	
	N,E	S(?)	8 55	...	...	...	
	N,E	F	55 ...	...	...	...	
,, 16	E	i(P)	15 54 00	...	...	5,440	No record in N from 14h. 34m. to 16h. 24m. Slight. Epc : 18° N., 123° E. Felt in Northern Luzon and slightly in Manila.
	E	i	54 42		...	...	
	E	i(PP)	55 49	...	...	...	
	E	L	16 8 ...	...	...	...	
	E	Mn	16 38	16	4	...	
	E	F	45 ...	...	...	...	
,, 16	N	e } P	22 40 45	...	...	...	Slight.
	E	i }					
	N,E	iS	48 21	...	...	...	
	N,E	F	23 22 ...	...	...	...	
,, 19	N,E	iP_1'	18 31 31	...	...	...	Slight. Very distant.
	N,E	i	31 52	...	...	...	
	N	e }	35 12	...	...	...	
	E	i }					

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
Mar. 19	N,E	e	53 40	...	...	...	
	E	Mn	19 29 ...	...	...	...	
	N	Mn	30 ...	...	...	...	
	E	F	19 54 ...	...	...	...	
	N	F	20 12 ...	...	...	...	
,, 21	N,E	eP	16 16 45	...	...	2,300	Slight. Epc: 26.°6N., 92.°7E. near Tezpore, Assam. O: 16h. 12m. 5s. Felt at Dhubri; Sylhet, Bogra, Jalpaiguri, Cherrapunji, Dibrugarh, Gauhati and Salona.
	N,E	i(pP)(?)	16 53	...	...	...	
	N	PPP	17 14	...	...	...	
	N,E	iS	20 35	...	...	...	
	N,E	i(sS?)	20 50	...	...	...	
	N	PcP	20 55	...	...	...	
	N,E	SS	21 6	...	...	...	
	N,E	L	22 10	...	...	...	
	N	F	17 21 ...	...	...	...	
	E	F	24 ...	...	...	...	
,, 21	N,E	e	18 18 ...	...	...	...	Feeble.
	N,E	e	24 47	...	...	...	
	N;E	i	26 00	...	...	...	
	N,E	F	46 ...	...	...	...	
,, 21	N,E	e	19 39 44	...	...	...	Feeble. Epc: 45.°5N., 143° E. (Chiufeng).
	N,E	e	48 7	...	...	...	
	E	F	20 37 ...	...	...	...	
,, 23	N	e	01 03 47	...	...	...	Feeble.
	E	i					
	N,E	e	8 42	...	...	...	
,, 26	N,E	eP	9 55 27	...	...	3,535	Slight. Epc: 11.°5 S., 64°E.
	N	PPP	56 32	...	...	...	
	N,E	S	10 0 45?	...	...	...	
	N,E	L	4 40	...	...	...	
	N	Mn	9 27	11	5	...	
	E	Hn	9 33	11	4	...	
	N	F	11 22 ...	...	...	...	
,, 27	N,E	e	22 45 ...	...	...	...	
	N,E	F	23 25 ...	...	...	...	
,, 29	N,E	e	7 59 ...	...	...	...	
	N,E	e	8 9 15	...	...	...	
,, 31	N,E	eP(?)	10 40 21	...	...	920	Feeble. Epc: 28°.5 N., 88°.5 E.
	N,E	eS	43 40	...	...	...	
	N,E	L	45 16	...	...	...	
	N	Mn	47 24	...	...	...	
	E	Mn	47 44	...	...	...	
	N,E	F	11 24 ...	...	...	...	
April 3	N	M	1 42 37	...	...	...	
	E	M	43 15	...	...	...	
,, 3	E	e	21 18 45	...	...	...	Feeble.
April 3	N,E	i	25 23	...	...	...	
	N,E	F	57 ...	...	...	...	
,, 5	N,E	iP	07 07 01	...	...	6,780	Moderate. P in minute eclipse.
	N	PP	9 20	...	...	...	Surface waves small. Epc: 5°S., 130°E. near Banda Islands. H—6h. 56m. 53s.
	N,E	iS	15 26	...	...	...	
	N,E	PS	15 51	...	...	...	
	N	ScS	17 4	...	...	...	
	N,E	SS	19 37	...	...	...	
	N	SSS	22 29	...	...	...	
	N,E	L	27 ...	...	...	...	
	N,E	F	10 25 ...	...	...	...	
,, 5—6	N,E	e	23 49 26	...	...	...	Feeble.
	N	e	52 24	...	...	...	
	N,E	F	00 22 ...	...	...	...	
,, 7	N	M	14 16 7	...	...	...	Seismic activity.
	E	M	16 30	...	...	...	
,, 7	N,E	iP	18 36 22	...	...	2,720	Slight. Surface waves poor. Epc: 36°N., 53°·0E. Persia.
	N,E	iS	40 45	...	...	...	
	N,E	L	45 ...	...	...	...	
	N,E	F	19 24 ...	...	...	...	
,, 8	N,E	e	15 24 ...	...	...	...	
	N,E	F	16 21 ...	...	...	...	
,, 9	N	M	11 26 47	...	...	...	Feeble.
	E	M	27 41	...	...	...	Seismic activity.
,, 12	N,E	e	15 17 ...	...	...	...	Feeble.
	N,E	F	32 ...	...	...	...	Seismic activity.
,, 14	N,E	e	21 27 ...	...	...	...	Feeble.
	N	M	35 45	...	...	...	
	N	F	51 ...	...	...	...	
	E	F	57 ...	...	...	...	
,, 15	N	M	19 28 38	...	...	...	Feeble.
	E	M	28 33	...	...	...	
,, 15	N	e	20 18 ...	...	...	...	
	N	F	51 ...	...	...	...	
,, 16	E	eP	3 15 48	...	...	12,500	Moderate. P in minute eclipse.
	N,E	P	16 00	...	...	...	Δ from mean of SKS—P and SS—P.
	N,E	e(pP?)	17 27	...	...	...	Epc: 22°·2 S., 179°·0E.
	N,E	e(sP?)	18 08	...	...	...	H=03h. 01m. 34s. Depth=390±km. (J. S. A.).
	E	i	19 09	...	...	...	
	E	PP	20 28	...	...	...	
	N	PP	20 34	...	...	...	
	N,E	ipPP	22 15	...	...	...	
	N,E	i	22 37	...	...	...	
	N,E	iSKS	26 00	...	...	...	
	N,E	i	27 10	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ.	Km.	
Apr. 16	N, E	ipSKS?	28 00	...	...	...	
	N, E	iSKS	28 45	...	...	...	
	N, E	i	30 00	...	...	...	
	E	iPS	30 23	...	...	...	
	N, E	isSP	32 15	...	...	...	
	N, E	iSS	36 00	...	...	...	
	N, E	e	50 00	...	...	...	
	N, E	F	06 20	...	...	...	
„ 29	N, E	P	19 5 51	...	...	10360	Moderate. Δ from PP—P.
	N, E	ePP	9 32	...	...	...	Epc: 53°·8N., 160°·5W. Depth = 40+kms. (J. S. A.). 53°·0N., 161°W. (U. S. C. G. S.). H = 18h. 52m. 40s.
	N, E	e	16 32	...	...	...	
	N, E	S (?)	16 46	...	...	...	
	N, E	e	18 35	...	...	...	
	N, E	e (SS)	23 17	...	...	...	
	N	eL	36 ...	...	...	...	
	E	eL	37 ...	...	...	...	
	N	Mn	49 23	24	28	...	
	E	Mn	54 40	19	11	...	
	N, E	F	Lost in following shock.				
„ 29	N, E	e	20 28 22	...	...	5,870	
	N, E	i	35 55		...	...	
	N, E	e	38 19		...	...	
	N, E	F	21 36 ...	...	...	...	
„ 30	E	eP(?)	19 36 06	...	...	1,400	Slight. Epc: 29°N., 81°E. in Nepal. H = 19h. 33m. 05s. N—No record.
	E	eS	38 35	...	...	...	
	E	i	39 15	...	...	...	
	E	Sg(?)	40 8	...	...	...	
	E	Mn	40 37	...	...	...	
	E	F	20 5 ...	...	...	...	
„ 30	E	e	20 9 30	...	...	...	Epc: Possibly in the neighbourhood of the preceding shock. N—No record.
	E	e	9 30	...	...	...	
	E	e	10 28	...	...	...	
	E	e	12 26	...	...	...	
	E	F	32 ...	...	...	...	
May 1-2	N, E	e	23 32 10	...	...	...	Feeble, Distant.
	N, E	e	55 ...	...	...	...	
	N, E	F	0 37 ...	...	...	...	
„ 2	N, E	e	23 20 ...	...	...	...	Feeble.
	N, E	F	0 9 ...	...	...	...	
	N	No record from 4d 3h 4m to 4h 10m, 6h 27m to 7h 1m, and 4d 8h 28m to 5d 2h 30m.					
	E	No record from 4d 5h 0m to 5d 5h 20m.					
„ 4	N	e	5 32 43	...	...	...	Slight. Epc: 59°,4N., 152°·9 W. (J. S. A.)
		e	59 ...	...	...	...	
		F	Lost in shifting.				
„ 6	N, E	e	10 41 31	...	...	...	Feeble.
	N, E	F	11 10 ...	...	...	...	
May. 9	E	Record lost from 9d 3h 00m to 4h 0m, 4h 27m to 9h 26m.					
„ 9	N, E	i(P)	14 57 44	...	...	...	Slight
	N, E	i(S)	15 6 51	...	...	...	Epc: 48°·0N., 150°·5E. near Kurile Islands. H = 14h. 46m. 46 s.
	N, E	e	7 50	...	...	...	
	E	e	11 0	...	...	...	
	E	e	14 ...	...	...	...	
	N, E	F	16 40 ...	...	...	...	
„ 10	E	e	15 44 ...	...	...	...	
	E	e	46 7	...	...	...	
	E	(i)	48 55	...	...	...	
„ 11	E	Record lost from 3h 23m to 39m.					
„ 12	N, E	i (P?)	2 56 20			7,890	Slight. Deep focus.
	N, E	e	57 17		...	...	Epc: 3° S., 142°·5 E
	N, E	e	58 15	..	...	...	Depth = 150 km. (Chiufeng).
	N, E	i (S?)	3 5 40	...	...	...	
	N, E	e	6 18	...	...	...	
	N, E	F	4 10 ...	...	...	...	
„ 12	N, E	eP	13 14 45	...	...	3,350	Slight. Epc: 0°, 96° E., West of Sumatra.
	N, E	iS	19 50	...	...	...	
	N, E	e	22 30	...	...	...	
	N, E	F	15 22 ...	...	...	...	
„ 15	N, E	e	7 59 ...	...	...	...	Feeble.
	N, E	F	9 15 ...	...	...	...	
„ 16	N, E	e	12 3 ...	...	...	...	Feeble.
	N, E	F	13 40 ...	...	...	...	
„ 20	N, E	e	12 52 ...	...	...	...	Feeble. Surface waves ?
		F	13 40 ...	...	...	...	
„ 27	E	e	4 54 ...	...	...	...	Feeble.
	N	e	5 9 ...	...	...	...	
	E	M	5 16 30	...	...	...	
	E	F	5 44 ...	...	...	...	
„ 28	N, E	iP	20 5 49	...	...	(6,230)	Slight. Deep focus. Surface waves very poor.
	N, E	i	8 32	...	...	...	
	N, E	iS	13 43 Sharp. Maximum movment.				
	N	e	16 57	...	...	...	
	E	i	17 05	...	...	...	
	N, E	F	21 26 ...	...	...	...	
„ 29	E	Record lost from 29d 3h 00m to 29d 10h.					
	N	Record lost from 29d 4h 10m to 29d 7h 52m.					
„ 30	E	Record lost during adjustments from 2h 52m to 4h 33m.					
„ 31	N, E	P	5 37 26	...	...	1,400	Slight. Δ from P—O.
	N, E	S(?)	39 42	...	...	...	Epc: 29°·3 N., 81°·0E., Western border of Nepal. O = 5h 34m 30s.
	N, E	e	40 24	...	...	...	
	N, E	i	41 6	...	...	...	
	N, E	e	42 22	...	...	...	
	N, E	F	6 7 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937			H. M. S.	Sec.	μ	Km.	
May 31	E	e	15 44 28	...	...	...	Slight. Deep focus. Epc: 2°·5 S., 159°·5 E. (Chiufeng).
	N, E	i	54 36	Sharp, maximum.			
	N, E	F	17 10 ...	...	...	...	
June 1	E	e	15 0 0	...	...	...	
	N	e	08 ...	...	...	...	
	N	F	19 ...	...	...	...	
	E	F	40 ...	...	...	...	
„ 7	N	e	3 51 ...	...	...	...	
	N	e	56 ...	...	...	...	
	N, E	P	4 33 ...	...	...	...	
„ 12	N, E	Record lost from 15h 19m to 16h 26m.					
„ 21-22	N, E	iP[1]	15 32 50	...	...	16,500	Moderate. △ from SS—P_1. Epc: 8°S., 80° W. (U. S. C. G. S.) 6°·8 S., 79°·9 W. H=15h. 13m. 17s. Depth=50km. Felt along the western coast of Peru. Some damage to coastal cities, particularly Trujillo, 300 miles N-W of Lima. Also felt in Lima. (J. S. A.)
	N, E	PP	36 22	...	...	...	
	N, E	i	43 20	...	...	...	
	E	i	46 28	...	...	...	
	N, E	i	47 15	...	...	...	
	E	e	48 25	...	...	...	
	E	e	49 50	...	...	...	
	N, E	SS	55 35	...	...	...	
	N, E	SSS	16 01 27	...	...	...	
	N	eL	18 ...	...	...	...	
	E	eL	20 30	...	...	...	
	E	eL	26 ...	...	...	...	
	E	Mn	43 30	19	120	...	
	N	Mn	43 30	19	11	...	
	N	F	17 39 ...	...	...	...	
	E	F	18 29 ...	...	...	...	
„ 30	E	e	14 17 ...	...	...	...	Feeble.
	E	F	15 16 ...	...	...	...	
July 1	N, E	iP	11 55 36	...	...	2,955	Moderate. Epc: 7°·5 N., 98° E. North of Sumatra. H=11h. 49m. 55s. In minute mark.
	N, E	PP	56 13	...	...	...	
	N, E	PPP	56 28	...	...	...	
	N, E	e	58 28	...	...	...	
	N, E	PcP	59 11	In minute mark.			
	N, E	iS	12 00 16	...	...	...	
	N, E	SS	01 11	...	...	...	
	N, E	L	03 17	...	...	...	
	N, E	ScS	06 23	...	...	...	
	E	Mn	07 ...	16	26	...	
	N, E	F	14 26 ...	...	...	...	
„ 2	E	e(P)	2 50 48	...	...	11,370	Slight. △from PP—P.
	N, E	i(PP)	54 53	...	...	...	
	N, E	i	3 00 14	...	...	...	
	E	Mn	34 ...	23	16	...	
	N, E	F	Lost in microseisms.				
„ 4	E	e(P)	6 8 34	...	...	10,710	Slight. △from PS—P.
	E	i	9 22	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
	N, E	e(PP)	12 21	...	...	...	
	N, E	e	14 ...	Lost in minute gap.			
	E	e	15 38	...	...	...	
	E	(SKS)	19 01	...	...	...	
	E	(SKKS)	19 36	...	...	...	
	N, E	PS	21 6	..	(In minute mark).		
	E	PPS	21 38	...	...	...	
	N, E	e	36 07	...	...	...	
	N, E	e	7 03 24	...	...	...	
	N, E	e	11 23	...	...	...	
	E	Mn	27 ...	30	26	...	(Three shocks superposed.)
	N, E	F	9 40 ...	...	...	...	
July 10	N	Record is lost from 10d 8h 20m to 11d 3h 40m.					
	E	Record is lost from 10d 10h 00m to 11d 4h 1m.					
„ 11	E	e	13 49 55	...	...	...	Feeble.
	E	e	58 53	...	...	...	
	E	e	59 45?	...	...	..	
	E	e	14 2 59	...	...	...	
	E	e	5 35	...	...	...	
	E	Mn	19 ...	...	...	...	
	N	Mn	20 ...	...	...	...	
	E	F	15 25 ...	...	...	...	
„ 11	E	e	18 30 ...	...	...	...	Feeble.
	E	Mn	46 ...	...	...	...	
	E	F	19 28 ...	...	...	...	
„ 12	E	eP	0 08 00	...	...	2,955	Slight. Epc: As of July 1.
	E	e	8 36	...	...	...	
	E	eS?	12 40	...	...	...	
	E	Mn	0 20 ...	13	9	...	
	E	F	1 30 ...	...	...	...	
„ 14	E	e	22 38 48	...	...	...	Slight, feeble.
	E	e	39 55	...	...	...	
	E	e	41 03	...	...	...	
	E	e	42 10	...	...	...	
	E	eS	47 00	...	...	...	
	E	M	23 7 ...	...	...	...	
	N	M	9 ...	...	...	...	
	E	Mn	10 ...	15	6	...	
	E	F	Lost in microseisms.				
„ 16	N;E	e	10 37 ...	...	...	...	Feeble.
	N,E	F	11 23 ...	...	...	...	
„ 18	N;E	e	01 58 20	...	...	...	Slight.
	N,E	F	Lost in shifting.				
„ 19	N;E	e	3 15 ...	...	...	...	Feeble.
	E	M	48 ...	...	...	...	
	E	F	4 45 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
July 19	N,E	e	10 9 ...	...	...	...	Feeble.
	N;E	e	15 ...	...	...	...	
	N,E	F	Lost of microseisms.				
,, 19	N,E	i	19 54 46	...	...	...	Slight. Epc: 1°·5 N., 77°·5 W. H-19h. 35m. 50s. h=175 km. (J. S. A.)
	E	i	55 26	...	...	...	
	N,E	i	56 46	...	...	...	
	N,E	e	58 45	...	...	...	
	N,E	i	20 2 15	...	...	...	
	N,E	e	4 32	...	...	...	
	N,E	e	16 30	...	...	...	
	N,E	F	22 10 ...	...	...	...	
,, 22	N,E	e(P)	17 22 24	...	...	9,770	Moderate. Epc: 64·°5 N.,145°·1 W. H=17h. 09m. 36s. G. M. T. Felt all over Central Alaska (J. S. A.)
	N,E	e	28 10	...	...	...	
	N;E	SKS	32 48	...	...	...	
	N,E	S	33 08	...	...	...	
	E	e	33 28	...	...	...	
	N,E	SS	38 43	...	...	...	
	E	Mn	18 4 ...	19	138	...	
	N	Mn	8 ...	17	161	...	
	N	F	21 19 ...	...	...	...	
,, 23	N,E	e	20 48 30	...	...	...	
	N	e	49 18	...	...	...	
	E	e	53 ...	...	...	...	
	N;E	F	Lost in microseisms.				
,, 26	N	iP'_1	4 06 27	...	...	15,550	Slight. Epc: 18°·6 N., 95°8 W. H=3h. 47m. 11s. h=75 km. Damage reported from cities along the Gulf coast of Mexico etc. (J.S.A.) h=100 km. (Kew).
	E,N	i	06 35	...	...	...	
	N	ipPP	10 03	...	...	...	
	E	i	10 09	...	...	...	
	N	i	13 18	...	...	...	
	E		Confused by microseisms.				
,, 26	N	eP	20 7 06	...	...	6,655	Moderate. Epc: 37°N., 140°E. 40°N., 142°E. (U. S. C. G. S.)
	E	iP					
	N	i	7 13	...	...	...	
	E	i	7 29	...	...	...	
	N,E	ePP	9 13	...	...	...	
	E	iS	15 24	...	...	..	
	N	eS	15 31	...	...	..	
	E	i	16 01	...	...	..	
	N,E	ScS?	17 07	...	...	...	
	N,E	eSS	19 31	...	...	...	
	N,E	L	25 44	...	...	..	
	E	Mn	33 ...	24	52	..	
	N,E	F	21 22 ...	...	...	..	
,, 30	E	e	14 18 ...	...	...	...	
	E	F	15 21 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
July 31	N,E	eP(?)	20 43 26	In minute gap.		4,455	Moderate Epc: In the region of 8°N., 114°E in China.
	N,E	PP	44 56	...	...	...	
	N,E	iS	49 41	...	...	...	
	N,E	SS	52 35	...	...	...	
	N,E	ScS	53 17	...	...	...	
	E	Mn	58 ...	10	30	...	
	N	Mn	21 01 ...	9	15	...	
	N,E	F	22 00 ...	...	...	...	
Aug. 1	N,E	eP	10 48 49	...	...	4,345	Moderate. Epc: Near that of July 31.
	N,E	PP	50 25	...	...	...	
	N,E	iS	54 58	...	...	...	
	E	SS	57 25	...	...	...	
	N,E	ScS	59 31	...	...	...	
	E	L	11 00 10	...	...	...	
	E	Mn	11 6 ...	11	20	...	
	N	Mn	11 6 ...	9	7	...	
	N,E	F	12 37 ...	...	...	...	
,, 2	E	i	16 06 13	...	...	...	
	E	Mn	29 ...	...	...	...	
	N,E	F	17 14 ...	...	...	...	
,, 4-5	N,E	iP	23 40 47	...	...	2,750	Slight. Epc: 6° N., 94°·5 E. off N. Sumatra.
	N,E	iPP	41 15	...	...	...	
	N,E	iS	45 12	...	...	...	
	N,E	eSS	46 16	...	...	...	
	N,E	M	51 ...	16	11	...	
	N,E	F	2 22 ...	...	...	...	
,, 5	N,E	eP(?)	14 55 49	...	...	8,550	Slight. Preliminary confused by microseisms. Surface waves poor. Epc: 7°S., 149°E. (STRASBOURG).
	E	iS					
	N	eS	15 05 40	...	...	...	
	E	i	06 04	...	...	...	
	N,E	e	10 28	...	...	...	
	E	eL	21 ...	...	...	...	
	E	F	16 30 ...	...	...	...	
,, 8	E	e	5 9 ...	In minute mark.		2,920	
		eP	5 9 38	...	...	...	
	E	e	12 41	...	...	...	
	N,E	e	13 38	...	...	...	
	N,E	e	16 14	...	...	...	
	E	M	16 ...	...	...	...	
	N	M	17 ...	...	...	...	
	N,E	F	Lost in microseisms.				
,, 9	E		No record between 9d. 1h. 2m. to 9d. 2h. 56m.				
,, 9	E	e	12 54 31	...	...	...	
	E	e	56 23	...	...	...	
	E	F	Lost in microseisms.				
,, 9	E	eP	14 49 54	...	...	6,850	Slight. Epc: 26° N., 140 E. near Bonin Islands.
	E	PP	52 21	...	...	...	
	E	eS	58 23	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
Aug. 9	E	SS	15 2 27	...	...	...	
	E	SSS	4 22	...	...	...	
	E	M	19 ...	...	...	...	
	E	F	16 18 ...	...	...	...	
,, 11	N,E	iP	01 03 55	...	...	5,555	Moderate.
	N,E	ipP	05 47	...	...	...	Maximum movement of amplitude 14mm after S. Epc: 6° S., 116°·5 E. to the West off Kangean Islands. O: oh. 55m. 52s. Depth=620 km. (appr.) Manila P=1h. 00m. 05 s. Hongkong P=01m. 04s. Christchurch P=05 m.14s. Wellington P=05m. 20s. Rathfarnham Castle P=09m. 10s.
	N,E	ePP	06 04	...	...	...	
	N,E	esP	06 57	...	...	...	
	N,E	ePcS	08 44	...	...	...	
	N	iS	10 13	...	...	...	
	E	iS	10 18	...	...	...	
	N,E	esS	13 39	...	...	...	
	N,E	i	13 44	...	...	...	
	N,E	SS?	14 20	...	...	...	
	N,E	F	04 22 ...	...	...	...	
,, 13	E	e	13 04 21	...	...	...	
	E	F	16 40 ...	...	...	...	
,, 14	E	Mn	10 26 ...	...	...	...	
	E	F	11 20 ...	...	...	...	
,, 15	N,E	i(PPP)	4 37 24	...	...	...	Slight. Epc: North China Sea.
	E	e(S)	42 09	...	...	...	
	E	e(SSS)	45 27	...	...	...	
	E	eL	48 25	...	...	...	
	E	M	59 ...	...	...	...	
	E	F	7 44 ...	...	...	...	
,, 15	E	e(P)	11 40 59	...	...	2,110	Slight. Epc: 30° N., 89° E. Tibet.
	N,E	ePP	41 17	...	...	...	
	N,E	eS	44 27	...	...	...	
	E	Mn	48 ...	9	6	...	
	N	Mn	50 ...	7	7	...	
	N,E	F	Lost in the next shock.				
,, 15	E	Mn	12 57 ...	...	...	...	Slight. After shock of the preceding one.
	N	Mn	12 56 ...	...	...	...	
	N, E	F	13 38 ...	...	...	...	
,, 17	E	Mn	13 52 ...	...	...	...	
	N,E	F	14 55 ...	...	...	...	
,, 20	N,E	iP	6 46 18	...	...	4,870	Slight. Epc: 24°S., 71°E. Indian Ocean. H=6h. 38m 21s.
	N,E	ePP	47 56	...	...	...	
	N,E	iS	52 55	...	...	...	
	N,E	iSS	55 28	...	...	...	
	N,E	L	56 35	...	...	...	
	E	Mn	7 02 ...	13	6	...	
	N	Mn	02 ...	...	...	...	
	N,E	F	9 15 ...	...	...	...	
,, 20	E	eP	12 07 49	...	...	5,165	Great. P(N) confused by some shift of Zero. Destructive in Manila. Epc: 17°N., 122°E. (U.S.C.G.S.) 14°10'N., 122°05'E. H=11h. 59m. 13s. (Manila).
	E	iP	07 57	...	...	...	
	N,E	iS	14 43	...	...	...	
	N,E	SS	17 38	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Aug. 20	E	Mn	33 30	18	214	...	
	N	Mn	33 ...	17	14	...	
	N,E	F	15 45 ...	...	...	...	
,, 21	E	No record, 4h. 0m. to 19 1 m.					
	N	No record, 16h. 14m. to 22 47 m.					
,, 21-22	E	E	23 20 55	...	...	...	Slight.
	E	Mn	44 ...	...	...	...	
	E		24 11 ...	...	...	...	
,, 23	E	Mn	17 41 ...	...	...	...	
,, 24	E	e	18 47 42	...	...	...	
	E	e	50 28?	...	...	...	
	N, E	Mn	19 49 ...	...	...	...	
	E	F	21 8 ...	...	...	...	
,, 24	E	e	21 19 ...	...	...	...	
	E	Mn	50 ...	...	...	...	
	E	F	22 15 ...	...	...	...	
,, 25	E	e	22 19 34	...	...	...	
	E	e	18 18	...	...	...	
	E	Mn	30 ...	...	...	...	
	E	F	23 00 ...	...	...	...	
,, 25-26	N—No record from 23h 52m to 0h 45m						
	E	e	19 03 35	...	...	...	
	N	Mn	31 ...	...	...	...	
	E	Mn	32 ...	...	...	...	
	E	F	20 32 ...	...	...	...	
,, 28	N—No record from 12h 27m to 13h 45m.						
,, 29-30	N—No record from 22h 49m to 30d 6h 36m.						
,, 31	N,E	iP	14 20 19	...	...	2,535	Moderate, P in minute gap. Epc: 25° N., 96°E. Upper Burma. H=14h. 15m 15s.
	N,E	iS	24 28	...	...	...	
	N,E	i	26 19	...	...	...	
	N	Mn	28 ...	6	35	...	
	E	Mn	29 ...	7	16	...	
	N,E	F	16 20 ...	...	...	...	
Sept. 1	E	e(P)	8 53 54	...	...	12,800	Slight. Epc: 81°S. 179°W. (U. S. C. G. S.) Kermade Islands. 37°S, 178°W. (Strasbourg) H=8 h. 39 m.
	E	e(P'1)	57 03	...	...	...	
	N,E	e	9 00 18	...	...	...	
	N,E	e(SKS)	04 23	...	...	...	
	N,E	i(PS)	08 03	...	...	...	
	N,E	e	09 38	...	...	...	
	N,E	e	14 25	...	...	...	
	E	e(L)	38 38	...	...	...	
	N	M	46 ...	...	...	...	
	E	Mn	51 ...	15	5	...	
	N,E	F	12 6 ...	...	...	...	

TABLE D_3—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Sept. 1	E	Mn	18 24 ...	...	...	...	
	E	F	44 ...	...	...	...	
,, 1	E	e	22 32 58	...	...	...	
	N	Mn	47 ...	...	...	...	
	E	Mn	52 ...	...	...	...	
	N,E	F	23 43 ...	...	...	...	
,, 2	E	e	12 32 37	...	...	...	
	E	F	13 07 ...	...	...	...	
,, 3	N,E	e	19 00 53	...	...	(9,635)	Moderate. Epc : 52°·5 N., 177°·5 W. Aleutian Islands. H=18h. 48m. 29s. h=160—180 km. (J. S. A.)
	N,E	iP	00 57	...	...	...	
	N,E	i	01 05	...	...	...	
	N,E	i	01 48	...	...	...	
	N,E	e	04 25	In minute gap			
	N,E	e	06 25	In minute gap			
	N;E	e	11 02	...	...	...	
	N,E	iSKS	11 09	...	...	...	
	N,E	i	11 30	...	...	...	
	N,E	i	11 57	...	...	...	
	N,E	i	12 25	In minute gap.			
	N,E	i	14 07	...	...	...	
	N,E	e	16 55	...	...	...	
	N,E	e(G)	24 53	...	...	...	
	N,E	F	23 12 ...	...	...	...	
,, 4	N Record lost from 2h 29m to 7h 49m.						
	E Record disturbed from 5h 00m to 12h 10m.						
,, 8	N,E	eP_1	0 59 05	...	...	14,510	Slight. Epc : South Atlantic, in the neighbourhood of Cape Horn. H=0h. 40. 1m. (U. S. C. G. S.)
	N,E	ePP	01 01 01	...	...	...	
	N,E	iSKS	06 36	...	...	...	
	N,E	iSKKS	08 16	...	...	...	
	N,E	eS	09 21	...	...	...	
	N,E	i	09 56	...	...	...	
	N,E	ePS	11 42	...	...	...	
	N,E	i	14 26	...	...	...	
	N,E	eSS	18 36	...	...	...	
	N,E	e	25 13	...	...	...	
	N,E	F	Lost in changing chart.				
,, 9	N,E	e	17 39 38	...	...	...	Feeble. Epc : Probably in the neighbourhood of Kabul. Felt very strongly at Drosh and Gulmarg.
	N,E	e	42 53	...	...	...	
	N,E	F	56 00	...	...	...	
,, 9-10	N,E	iP	23 42 13	...	...	2,345	Slight. Epc : 27°N. 94°E. Assam. Felt strongly at Dibrugarh and moderately at Gauhati, Tezpur, Salona and Shillon.
	N,E	ePP	42 35	(In minute gap)			
	N,E	eS	46 06	...	...	...	
	N	M	48 41	...	...	...	
	N	F	24 20 ...	...	...	...	
,, 15	E	iP	12 40 36	...	...	10,030	Slight. Epc :, 9°S., 161°E Solomon Islands.. (U. S. C. G: S.) H=12h. 27m. 37s.
	E	ePP	44 14	...	...	...	
	E	i	51 00	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Sept. 15	E	iS	51 32	...	...	...	
	E	ePS	52 29	...	...	...	
	E	F	16 30 ...	...	...	...	
,, 16	N,E	$i(P_1{}^1)$	0 8 22	...	...	15,830	△from PP—$P_1{}^1$
	N,E	e(PP)	11 33	...	...	...	Epc : 14 N., 92°W. H=23h. 48m. 52s. (U. S. C. G. S.)
	N,E	e(SKKS)	18 23	...	...	...	
	N,E	e(PSKS)	21 45	...	...	...	14°N., 91°W. (Strasbourg).
	N,E	F	2 15 ...	...	...		
,, 17	N,E	e	9 49 21	...	...	...	
	N,E	e	55 43	...	...	...	
	N,E	e	59 10	...	...	...	
	E	F	12 13 ...	...	...	...	
,, 21	No record in N-S from 6h 32m to 10h 10m						
,, 21	E	iP	7 52 36	...	...	...	Slight. Epc : 21°N., 104°E. Deep ?
	E	e	53 13	...	...	...	
	E	e	57 11	...	...	...	
	E	iS	57 36	...	...	...	
	E	e	58 0	...	...	...	
	E	SS	59 29	...	...	...	
	E	F	8 58 00	...	...	...	
,, 21	E	eP	9 49 16	...	...	...	Slight. Epc : In the region of 4° N., 125°E. Celebes Sea. H=9h. 40.0m
	E	e	49 50	...	...	...	
	E	e	56 57	...	...	...	
	E	iS?	57 23	...	...	...	
	E	iScS	59 0 5	...	...	...	
	E	F	12 55	...	...	...	
,, 22	E	e(P)	3 19 26	...	...	...	Slight. Epc : 12°·3 N., 124°·8 E. Felt in Eastern Visayas (Manila):
	N,E	e(S)	27 02	...	...	...	
	N,E	F	4 38 ...	...	...	...	
,, 23	N,E	iP	13 18 26	...	...	9,300	Moderate.
	N,E	i	18 58	...	...	...	△from SKS—P Epc : 6° S., 154°E. O=13h. 06m. 01s. (U. S. C. G. S.).
	N,E	e	19 26	...	...	...	
	N,E	ePP	21 29	...	...	...	
	N,E	iSKS	28 49	Maximum movement after SKS			
	N,E	PS	29 40	...	...	...	
	N,E	SS	34 31	...	...	...	
	E	i	41 01	...	...	...	
	N,E	F	18 07 ...	...	...	...	
,, 26	N,E	e	23 32 53	...	...	...	
	N,E	e	47 ...	...	...	...	
,, 27	E	Record lost from 4h 20m to 17h 30m					
	N	Record lost from 4h 16m to 8h 43m and from 9h 14m to 11h 00m					
,, 27	N	iP	9 03 36	...	...	4,955	Moderate, Epc : 7° S., 110° E. (Strasbourg). Central Java.
	N	e	10 09	...	...	...	
	N	iS	10 18	...	...	...	

TABLE D_z—*contd.*

Date.	Compt.	Phase.	G. M. T.	Amplitude	△	Remarks.
1937.			H. M. S. Sec.	μ	Km.	
Sept. 27	N	eSS	13 09 ...	...	...	
	N	No Record from 9h 13m 40s to 11h 00m				
	N	F	13 00 00 ...	...	...	
,, 28	N	e	6 40 26 ...	...	...	
	N,E	Mn	7 51 ...	...	...	
	N,E	F	9 58 ...	...	...	
,, 30	N	e	21 59 36 ...	...	...	
	N,E	Mn	22 47 ...	...	...	
	N,E	F	23 05 ...	...	...	
Oct. 1	N	e	15 22 08 ...	...	...	Feeble.
		Mn	42 ...	...	...	
		F	16 16 ...	...	...	
, 1	N,E	e	19 42 12 ...	...	...	Feeble.
	N	Mn	20 40 ...	...	...	
	N	F	22 10 ...	...	...	
,, 4	N	e	4 15 10 ...	...	...	Feeble.
	N,E	e	17 26 ...	...	...	
	N,E	F	5 30 ...	...	...	
,, 5	N,E	e	7 20 ...	...	...	Feeble.
	N	Mn	49 ...	...	...	
	N	F	8 57 ...	...	...	
,, 6	N,E	e	10 36 47 ...	...	...	Slight, Near.
	N	e	40 53 ...	...	...	
	N,E	F	11 51 ...	...	...	
,, 6	N;E	iP	17 17 19 ...	...	9200	Slight. Deep ? Epc : 10°S., 150°E. New Guinea (Strasbourg).
	N,E	i	18 04 ...	...	...	
	N,E	i	20 52 ...	...	...	
	N;E	iS?	27 39 ...	...	...	
	N,E	i	28 17 ...	...	...	
	N,E	F	20 45 ...	...	...	
7	N	e	8 17 20 ...	...	...	
	N	F	lost in microseisms		...	
,, 9	N	e	18 21 19 ...	...	...	
	N	F	49 ...	...	...	
,, 11	N,E	e	22 38 52 ...	...	...	Felt strongly in Shillong.
	N, E	F	23 35 ...	...	...	
,, 12	N,E	e	21 10 19 ...	...	...	Slight. Two shocks superposed ?
	N, E	F	23 06 ...	...	...	
,, 17	N;E	iP	4 57 23 ...	...	6745	Slight. Large waves poor in E. Epc : 35°·7 N, 141°0 E. Inubosaki (Strasbourg).
	N,E	iS	5 05 44 ...	...	...	
	N	M	27 ...	15 5	...	
	N, E	F	7 00 00 ...	...	...	
,, 20	N, E	iP	1 26 53 ...	...	1355	Moderate. Felt very strongly in Dehra Dun and Ambala, strongly in Mussoorie.
	N;E	e	26 19 ...	...	...	
	N;E	iS	29 09 ...	...	...	

Date.	Condt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
	N,E	iS*	30 08	...	...	...	Lahore and Roorkee moderately in Jullundur, Simla and Srinagar and feebly in New Delhi Epc : 30°.0N 78°.2E. near Dehra Dun, O = 1h.24m.00s M lost in E—W compt. due to fading of light.
	N	i	30 23	...	...	...	
	N;E	i	31 31	...	...	...	
	N,E	M	31 46	8	91	...	
	N, E	F	2 21 ...	...	...	...	
Oct. 22	N,E	e(P)	16 20 36	...	...	...	Feeble. Epc : 0°·5 N., 96°·0 E, West off Sumatra. H = 16h. 14m. 5.
	N,E	e(S)	25 36	...	...	...	
	N,E	Mn	28 ...	...	...	...	
	N,E	F	17 30 ...	...	...	...	
,, 23	E	Mn	18 00 ...	...	...	...	Feeble.
	N	Mn	05 ...	...	...	...	
	N,E	F	43 ...	...	...	...	
,, 24	N,E	e	11 53 03	...	...	...	Feeble. Surface. Waves poor.
	N,E	e	59 44	...	...	...	
	N,E	F	13 15 ...	...	...	...	
,, 25	N,E	e	7 39 26	...	...	...	Feeble.
	N	Mn	8 08 ...	...	...	...	
	E	Mn	10 ...	...	...	...	
	N,E	F	58 ...	...	...	...	
,, 25	E	Mn	11 39 ...	...	...	...	Feeble.
	N	Mn	45 ...	...	...	...	
	N,E	F	12 18 ...	...	...	...	
,, 25-26	N,E	i	23 31 58	...	...	...	Feeble.
	N,E	e	41 13	...	...	...	
	N	Mn	00 00 ...	...	...	...	
	E	Mn	05 ...	...	...	...	
	N,E	F	00 45 ...	...	...	...	
,, 29	N	Record lost from 5h 37m to 7h 49m.					
,, 29	E	iP	7 30 31	...	...	2050	Slight. Felt at Drosh Lahore Cherat, Peshawar, Srinagar and Kabul. Epc : 37° N.,70°·5E., O = 7h. 26m. 30s. h = 250-300km. 39°N., 69°E. Turkestan (Strasbourg).
	E	i(pP)	31 21	...	...	...	
	E	e(sP)	31 43	...	...	...	
	E	iS	33 40	...	...	...	
	E	i	34 48	...	...	...	
	E	F	8 45 ...	...	...	...	
,, 30	N,E	Mn	20 34 ...	...	...	...	Probably seismic.
	N,E	F	50 ...	...	...	...	
Nov. 2	N,E	e	11 07 22	...	...	...	Feeble.
	N,E	F	12 41 ...	...	...	...	
,, 2	N,E	e	16 13 ...	...	...	...	
,, 7	N,E	eP	19 11 27	...	...	1890	Slight. Epc : 36°·8N. 73°·5E. Hindukush. Felt strongly at Srinagar, Gurez and Drosh.
	N,E	e	14 15	...	...	...	
	N,E	eS	14 43	...	...	...	
	N,E	e(L)	16 01	...	...	...	
	N	Mn ?	17 42	...	...	...	
	N,E	F	54 ...	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Nov. 11	N,E	eP	0 4 10	...	...	1210	Slight. Epc. 22°·5N., 62°E, north Arabian Sea. H⇒Oh. 01m. 30s.
	N,E	eS	7 23	...	...	...	
	N,E	Mn	11 00	...	...	...	
	N,E	F	1 33 ...	...	...	...	
„ 12	N,E	e(P)	14 43 19	...	...	1670	Slight. Epc : 33° N., 77°·5E. H = 14h. 39m. 50s.
	N,E	e(S)	46 05	...	...	...	
	N,E	F	15 12 ...	...	...	...	
„ 12	N,E	e	17 29 10	...	...	...	Feeble.
	N,E	F	50 ...	...	...	...	
„ 13	N,E	e	10 10 13	...	...	...	Slight, distant.
	E	e	12 43	...	...	...	
	N,E	e	16 04	...	...	...	
	N,E	F	Masked in the beginning of the next shock.				
„ 13	N,E	eP	11 54 58	...	...	2150	Slight. Epc : 38°N., 70°·5E.
	N,E	eS ?	58 35	...	...	...	
	N,E	F	12 41 ...	...	...	...	
„ 13	N,E	Mn	19 01 ...	...	...	...	
	N,E	F	50 ...	...	...	...	
„ 14	N,E	iP	11 02 05	...	...	2;070	Great. Damage to buildings in Chitral and Kashmir. Felt very strongly in the N. W. Frontier, Kashmir and the North Punjab and moderately in the South Punjab and parts of U. P. Epc: 37°·3N.72°·3E. North of the Hindu Kush (tentative). h = 200 km. O = 10h. 58m. 05s. 36°·5N., 70°·5E. h = 220 km. (Strasbourg). 35°·2N., 72°·8E. h = 250 km. H = 10h. 58m. 12s. (J. S. A.)
		sP	03 06	...	...	...	
		iS	05 21	...	...	...	
		F	14 16 ...	...	...	...	
„ 15	E	No record from 3h 40m to 15h 48m.					
	N,E	iP	21 41 19	...	...	1,710	Moderate. Epc : 34°·5N.; 77°·5E east Kashmir. O = 21h. 37m. 34s. Felt fairly strongly at Srinagar.
	N	eS }	44 19	...	...	...	
	E	iS }					
	N,E	i	46 10	...	...	...	Phu Lien eP = 21h. 43m. 22s.
	N	Mn }	47 46	...	...	...	Helwan iP = 21h. 44m 58s.
	E	Mn }					De Bilt P = 21h. 46m. 47s.
	N,E	F	23 55 ...	...	...	...	Strasbourg iP = 21h. 46m. 39s.
„ 16	N,E	e	5 35 31	...	...	...	Feeble.
	N,E	F	6 02 ...	...	...	...	
„ 16	N,E	e	13 53 ...	...	...	...	Feeble. Felt feebly at Drosh.
	N,E	F	14 07 ...	...	...	...	
„ 16	N,E	e	22 38 ...	...	...	...	Feeble.
	N	Mn	45 ...	...	...	...	
	E	Mn	46 ...	...	...	...	
	N,E	F	23 7 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
			H. M. S.	Sec.	μ	Km.	
1937.							
Nov. 18	N	No record from 11h 55m to 11d 3h 00m.					
	E	No record from 3h 05m to 14h 02m.					
„ 18	N,E	e	3 00 15	...	...	...	Feeble.
	N	e	09 39	...	...	...	
	N	F	4 22 ...	...	...	...	
„ 19	N,E	e	22 15 12	...	...	...	Feeble.
	N,E	e	19 10	...	...	...	
	N,E	F	23 7 ...	...	...	...	
„ 20	[illegible]	e	17 11 ...	...	...	...	Feeble.
„ 23	E	e	14 04 31	...	...	...	
	N,E	e	14 47	...	...	...	
	N,E	F	16 15 ...	...	...	...	
„ 24	E	e	2 53 30	...	...	...	
	N,E	F	4 08 ...	...	...	...	
„ 24-25	E	No record from 8h 00m to 25d 3h 24m.					
„ 25	N	e	01 01 07	...	...	...	
	N	F	Lost in shifting of charts.				
„ 25	N,E	e	5 07 16	...	...	...	
	N,E	F	8 05 ...	...	...	...	
„ 26	N	eP }	10 53 43	...	...	5,010	Slight., Deep focus ? Epc : 27°·5 N., 122° E. east coast of China.
	E	iP }					
	E	i }	54 02	...	...	...	
	N	e }					
	N	e }	55 52	...	...	...	
	E	i }					
	N,E	iS	11 00 28	...	...	...	
	N,E	i	04 ...	...	...	...	(In minute mark).
	N,E	F	12 10 ...	...	...	...	
„ 27	N,E	e	13 57 ...	...	...	...	Feeble.
	N,E	Mn	14 35 ...	...	...	...	
	N,E	F	15 55 ...	...	...	...	
„ 28	N,E	iP	5 30 22	...	...	3,535	Moderate. Epc : 2°·0 S., 96°·6E. off West Sumatra.
	N,E	iPP	31 27	...	...	...	
	N,E	eS	35 32	...	...	...	O = 5 h 24 m 00s.
	N,E	SS	37 17	...	...	...	Strasbourg △ (PPP P) = 91°·3
	N,E	L	39 24	...	...	...	
	E	M	44 ...	15	66	..	Christ Church △ (S − P) = 78°.
	N	M	48 ...	...	...	...	
	N,E	F	9 14 ...	...	...	...	
„ 30	N	e	00 44 26	...	...	2,465	Moderate. Epc : 5°N., 89°E. South Bay of Bengal H = Oh. 40m. 28s. 5°N., 90°E. H.O = Oh. 40.5m. (Strasbourg).
	N,E	iP	45 24	...	...	...	
	N,E	iPP	45 35	...	...	...	
	N,E	iS	49 27	...	...	...	
	N,E	iSS	49 45	...	...	...	

TABLE D_2—*contd.*

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
Nov. 30	N,E	L	51 25	...	...	...	
	E	M	53 ?	20	...	...	
	E	M	55 ...	13	64	...	
	N	M	55 ...	14	74	...	
	N,E	F	03 25 ...	...	...	...	
„ 30	N	eP	13 05 08	...	...	4,090	Moderate. Epc : 6°·5 N., 37°·5 E. in Abyssinia. H=12h. 57·9m.
	E	iP					
	N,E	PP	06 28	...	...	...	Strasbourg △ (S–P) =49°·6
	N,E	iS	11 01	...	...	...	Ksara △ (S–P)= 29°·5
	N,E	SS	13 10	...	...	...	
	N,E	L	15 17	...	...	...	Bucarest △ (S–P) =39°·0
	N	M	18 29	15	29	...	Beograd ∠ (S–P) =41°·6
	E	M	19 ...	17	87	...	
	N,E	F	15 20 ...	...	...	...	Trieste △ (S–P) =44°·3
							Stuttgart △ (S–P) =48°·5
							Helwan △ (P–H) =21°·9
							Cape Town △ (S–P) =42°·1
							7°·5 N., 45°E. h=100 km. (Strasbourg).
Dec. 5	E	e	15 38 16	...	...	...	Feeble.
	N,E	e	43 58	...	...	...	
	N,E	e	49 13	...	...	...	
	N,E	e	16 23 0	...	...	...	
	N,E	F	18 05 ...	...	...	...	
„ 6	N,E	eP	4 44 44	...	...	6,850	Slight. Epc : Near Bonin Island.
	N,E	eS	53 13	...	...	...	
	N,E	SS	57 07	...	...	...	
	N	Mn	5 13 35	15	7	...	
	E	Mn	19 18	15	5	...	
	N,E	F	7 00 ...	...	...	...	
„ 8	N,E	eP	8 40 30	...	...	4,950	Moderate. Epc : 25° N., 120° E. H=8h. 32m. 17s.
	N,E	ePP	42 29	...	...	...	26°N., 119°E. H.O.=8h. 32·4m. (U. S. C. G. S.)
	N,E	iS	47 11	...	...	...	
	N,E	SS	50 24	...	...	...	23°·2 N., 121°E., felt in all Formosa. (Taihoku).
	N,E	L	54 14	...	...	...	
	E	Mn	9 03 24	15	75	...	
	N	Mn	04 40	12	33	...	
	N,E	F	12 11 ...	...	...	...	
„ 8	N,E	e(P)	20 47 4	...	...	...	Feeble. Epc : Probably in the neighbourhood of the previous shock.
	N,E	e(S)	53 50	...	...	...	
	N,E	F	22 15 ...	...	...	...	
„ 10	N,E	eP	13 39 20	...	...	6,845	Slight.
	E	ePP	41 40	...	...	...	
	N,E	S	47 49	...	...	...	
	E	e	48 44	...	...	...	
	E	Mn	14 11 22	11	8	...	
	E	F	16 34 ...	...	...	...	

Date.	Compt.	Phase.	G. M. T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
Dec. 10	E	e	19 45 41	...	...	...	Feeble.
	E	F	20 11 ...	...	...	...	
„ 12	E	e	8 18 8	...	...	...	Mostly surface waves.
	N,E	e	26 22	...	...	...	
	E	Mn	9 07 ...	11	4	...	
	N,E	F	12 18 ...	...	...	...	
„ 13	E	eP	19 2 19	...	...	4890	Moderate. Epc, 24°N. 121° E.
	N	eP	02 23	...	...	...	23° N., 120° E. South of Formosa (Strasbourg). Felt in all Formosa. (Manila).
	N, E	e(PP)	04 11	...	...	...	
	N, E	iS	08 57	...	...	...	
	N, E	eSS	12 04	...	...	...	
	N, E	L	14 56	...	...	...	
	E	Mn	26 ...	17	124	...	
	N, E	F	22 43 ...	...	...	...	
„ 14	E	e	0 27 ...	...	...	...	Feeble.
	E	Mn	1 2 ...	...	...	...	
	E	F	1 55 ...	...	...	...	
„ 16	N	Lines overlapping and phases unidentifiable.					
„ 16	E	e	08 29 16	...	...	...	Feeble.
	E	e	37 17	...	...		Large waves.
	E	e	44 13	...	...	...	
	E	F	09 55 ...	...	...	...	
	N—Record lost from 9h 10m to 11h 2m, and 17h 38m to 18h 40m.						
„ 16	E	e	17 47 ...	...	...	...	Feeble.
	E	e	50 41	...	...	...	Epc : 36°·4 N., 21°·0 E. Near Athens. (Strasbourg).
	E	e	53 57	...	...	...	
	E	F	Lost in the next shock.				
„ 16	E	e	18 34 06	...	...	...	Feeble.
	N, E	e	41 36	...	...	...	
	N, E	F	19 53 ...	...	...	...	
„ 17	N, E	e	04 34 30	...	...	...	Slight.
	N, E	e	41 00	(In minute eclipse).			
	E	Mn	52 30	12	4	...	
	N, E	F	06 24 ...	...	...	...	
„ 17	E	e	08 35 ...	(Large waves).			Feeble.
		F	09 18 ...	...	...	...	
„ 17	E	iP	09 40 33	...	...	4950	Moderate. Epc : Same as Dec. 8d 8h 40m.
	N	eP					
	N, E	ePP	42 06	...	...	...	
	N, E	ePcP	42 25	...	...	...	
	N, E	iS	47 14	...	...	...	
	N, E	eSS	50 28	...	...	...	
	N, E	eScS	50 38	...	...	...	
	E	i(G)	50 58	(In minute eclipse)			
	N, E	eL	54 20	...	...	...	

TABLE D_2—*concld.*

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec	μ	Km.	
Dec. 17	N	e	57 58	(In minute gap.)			
	N	Mn	10 00 00	15	21	...	
	E	Mn	03 21	11	31	...	
	N, E	F	13 08 ...	...	...	...	
,, 17	N, E	e	19 46 ...	...	...	...	Large waves.
	E	Mn	5. 14	...	...	...	
	N; E	F	20 20 ...	...	...	...	
,, 18	N	iP	13 23 11	...	...	2,500	Moderate Epc : 42°0 N. 71° 6 E, O=13h 18m.05 Bucarest △ (P-O) =32°7° Beograd △ (P-O) =36.3 Tierste △ (P-O) =39.°9 Stutgart △ (P-O) =42.°5 Kew △ (P-O)=4'°6
	E	eP					
	N	iPP	23 36	...	...	...	
	E	ePP					
	N, E	iS	27 17	...	...	...	
	N, E	eSS	27 51	...	...	...	
	N; E	L	29 17	...	...	...	
	N	Mn	33 15	10	38	...	
	E	Mn	33 15	11	44	...	
	N, E	F	15 30 ...	...	...	...	
,, 20	N, E	eP	05 02 40	...	...	1,380	Slight. Epc : 29° N., 181°E. Western border of Nepal. O=4h 59m 50s.
	N; E	eS	04 59	...	...	...	
	N, E	Sg	06 14	...	...	...	
	E	Mn	06 35	...	...	...	
	N	Mn	06 40	...	...	...	
	N; E	F	06 00 ...	...	...	...	
,, 21	E		No record from 13h 50m to 19h 40m.				
,, 22	N	e	03 57 15	...	...	...	Slight.
	N;E	i	04 00 20	...	...	...	Epc : 17°N., 106°W. H. O=3h. 37m. 17s (U. S. C. G. S.) Epc : 17°N. 105.°7W H=3h 37m 15s (J. S. A.)
	E	e	18 58	(In minute eclipse).			
	N, E	e	36 58	(In minute eclipse).			
	N	Mn	05 05 ...	...	...	...	
	E	Mn	05 45	...	...	...	
	N; E	F	06 34 ...	...	...	...	
,, 23	N, E	iP_1	13 37 32	...	...	16,000	Great. △ from PP-P_1 Epc : 17°5 N., 97.° 5W. H. O=13h. 17m 56s. (Strasbourg).
	N; E	e	38 56	...	...	...	
	N, E	iPP	40 33	...	...	...	Destructive in Mexico.
	N, E	iPPP	43 56	(In minute mark).			
	N; E	SKS	44 56	(,, ,,)			
	N; E	iSKKS	46 56	(,, ,,)			
	N, E	SKSP	50 41	...	...	...	
	N, E	PPS	53 13	...	...	...	
	N, E	SS	59 56	(In minute mark).			
	N, E	(ScSScS)	14 01 32	...	...		

Date.	Compt.	Phase.	G.M.T.	Period.	Amplitude.	△	Remarks.
1937.			H. M. S.	Sec.	μ	Km.	
Dec. 23	N, E	e	29 ...	...	...	...	
	E	Mn	46 32	21	174	...	
	N	M	49 00	21	187	..	
	N, E	F	17 20 ...	...	...	...	
,, 24	N, E	e	6 40 31	...	...	...	Feeble 10°S., 76°W (U. S. C. G. S.)
	N, E	e	44 03	...	...		
	N, E	e	7 03 06	...	...	...	
	N, E	e	32 29	...	...	...	
	E	Mn	47 12	19	35	...	
	N, E	Mn	9 29 ...	...	...	...	
,, 25	E	i	1 20 00	...	...	...	Feeble.
	N	e					
	E	e	20 12	...	...	...	
	N; E	e	22 24	...	...	...	
	N,E	e	28 13	...	...	...	
	N,E	e	41 01	...	...	...	
	N, E	F	Lost in shifting charts.				
,, 25	E	e	10 04 17	...	...	...	Feeble,
	N,E	e	11 13	...	...	...	
	N,E	e	21 04	...	...	...	
	N,E	F	11 15 ...	...	...		
,, 25	N,E	e	21 29 12	...	...	...	Feeble.
	N,E	e	46 03	...	...	...	
	N	Mn	22 18 ...	...	...	...	
	E	Mn	20 ...	...	...	...	
	N, E	F	23 36 ...	...	...	...	
,, 27	E	Mn	1 15 ...	...	...	...	Feeble.
	E	F	42 ...	...	...	...	
,, 28	E	e	3 19 37	...	...	...	In hourly break. N—record lost.
	E	i	27 30	...	...	...	
	E	F	Lost in shifting.				
,, 28	E	eP	6 33 24	...	...	11220	Slight. △ from PP-P Epc: 1°8 S.,22°. O.W. H. O=6h. 19. 6m. Strasboosg.
	N, E	iPP	37 26	...	...	...	
	N, E	iSKS	44 00	...	...	...	
	N, E	iS	44 42	...	...	...	
	N, E	PS	46 30	...	...	...	
	E	PPS	47 24	...	...	...	
	E	SS	52 07	...	...	...	
	N, E	L	7 10 ...	...	...	...	
	E	Mn	24 ...	15	7	...	
	N	Mn	27 ...	...	...	...	
	N, E	F	9 43 ...	...	...	...	
,, 31	N, E	E	18 01 5	...	...	...	Feeble.. Epc : 15°N 98°W. (U. S. C. G. S.)
	E	Mn	19 8 ...	...	...	...	
	N, E	F	20 35 ...	...	...	...	

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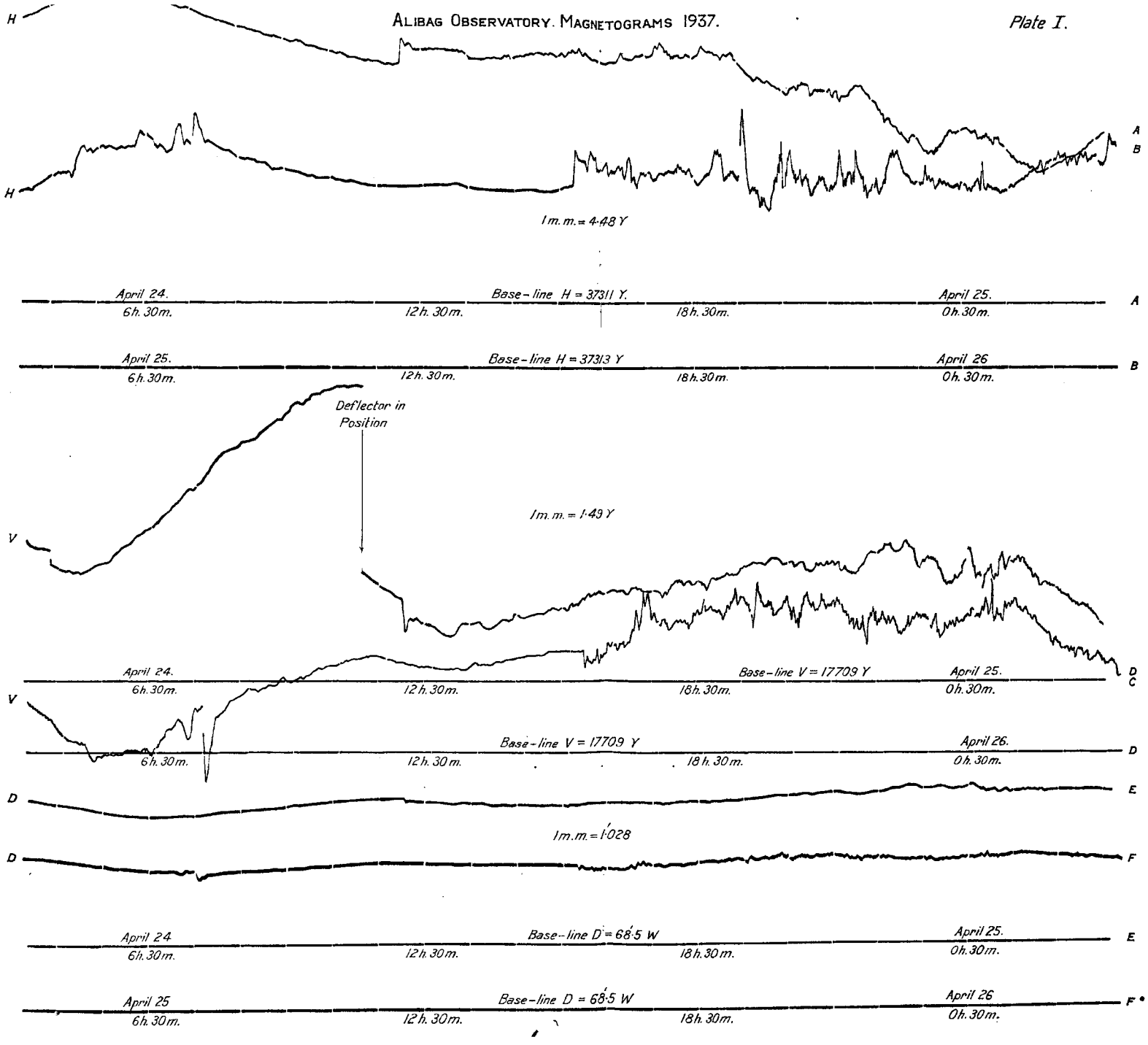
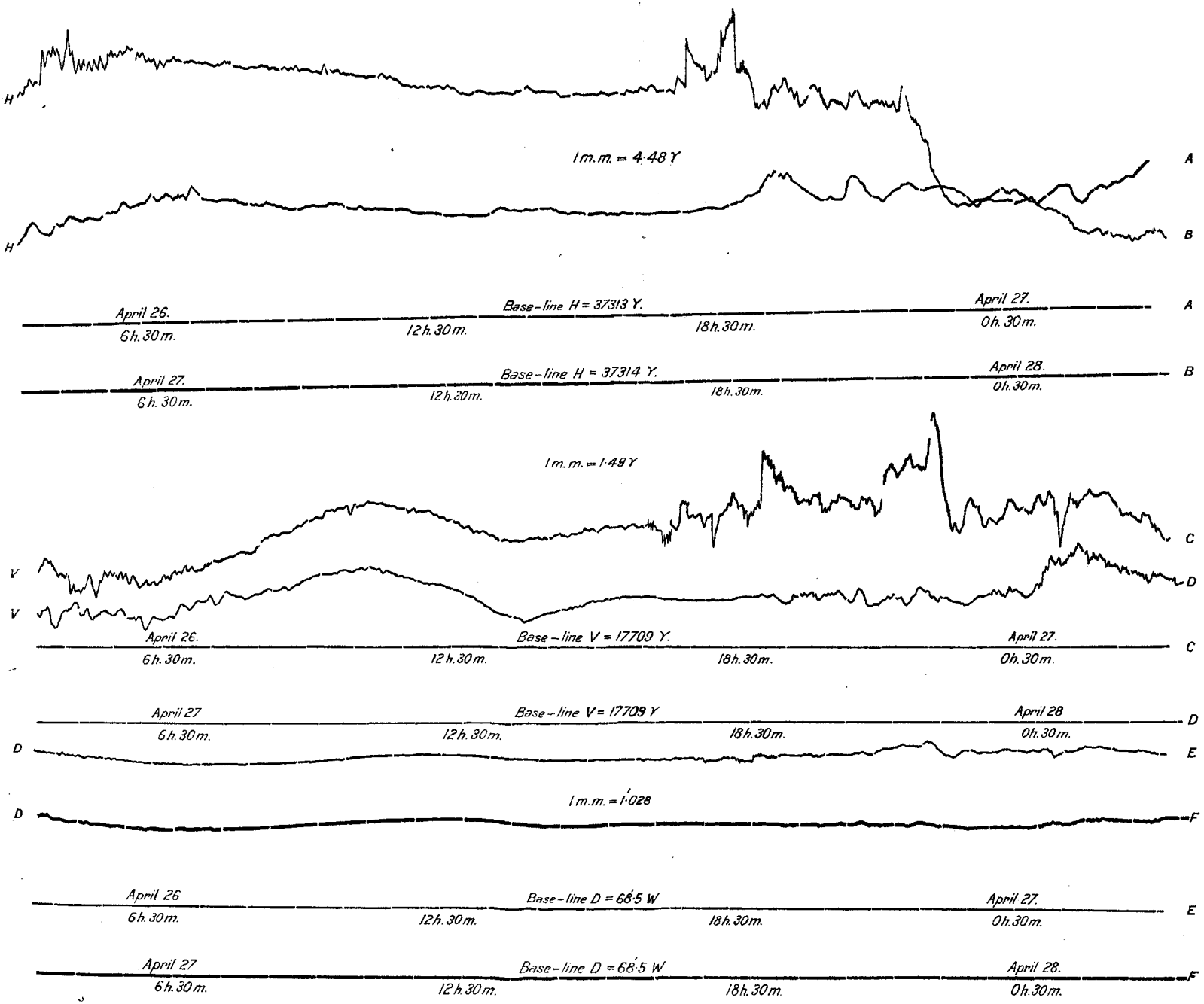
GIPD—172 Meteo. Bom.—10-8-39—240.

ALIBAG OBSERVATORY. MAGNETOGRAMS 1937.

Plate I.

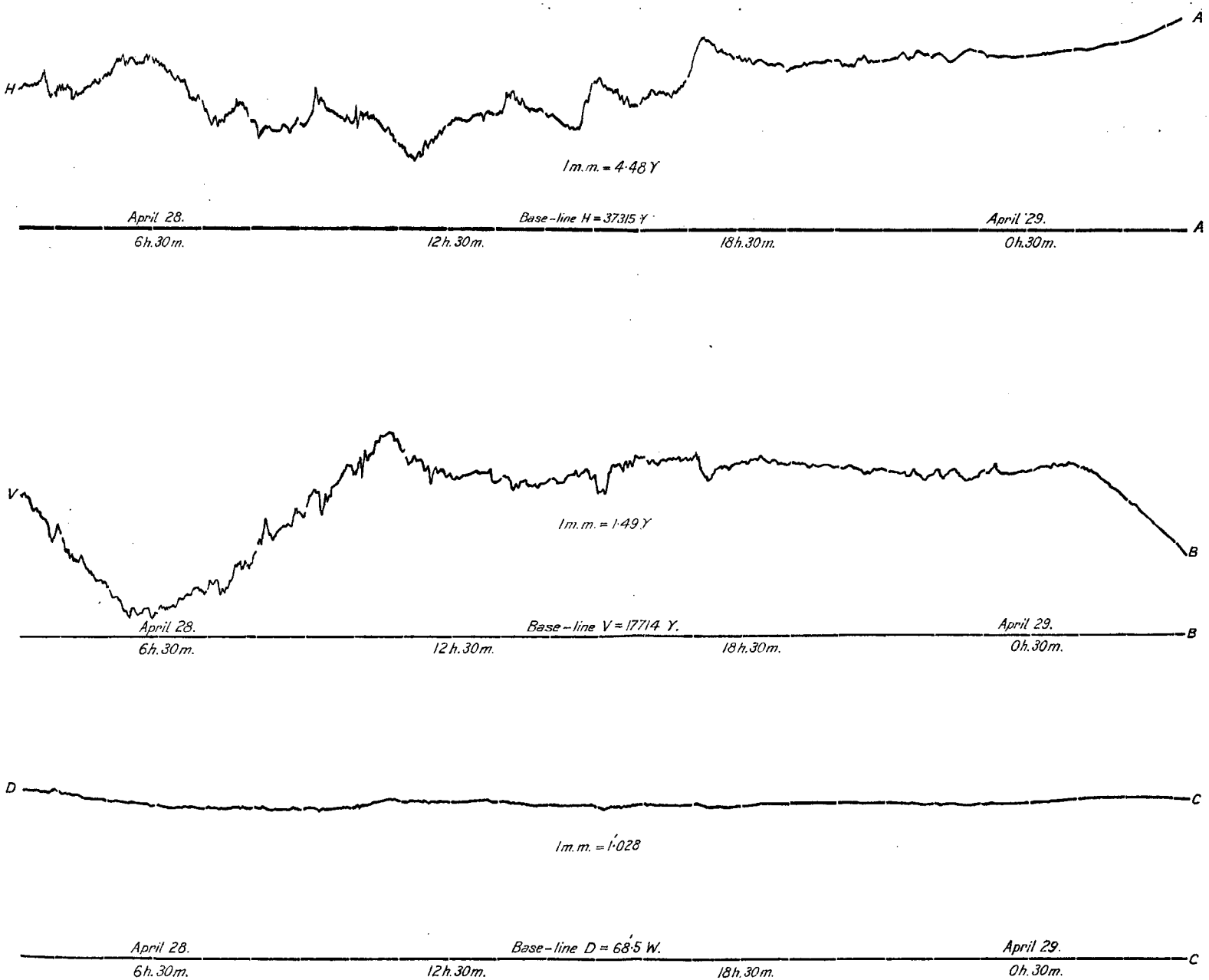


ALIBAG OBSERVATORY MAGNETOGRAMS, 1937. *Plate II.*



ALIBAG OBSERVATORY MAGNETOGRAMS, 1937.

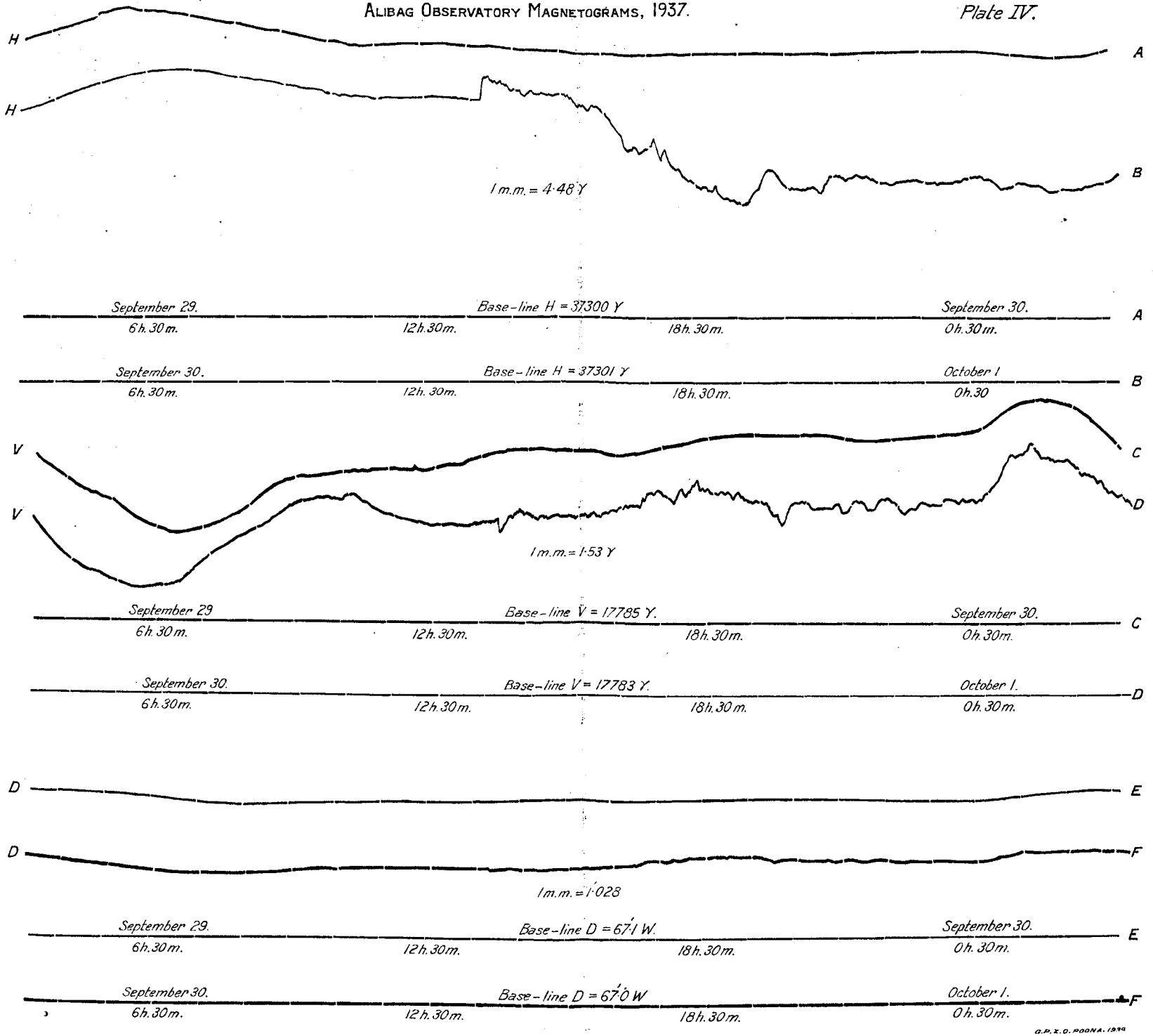
Plate III.



G.P.I.O. POONA, 1939.

Alibag Observatory Magnetograms, 1937.

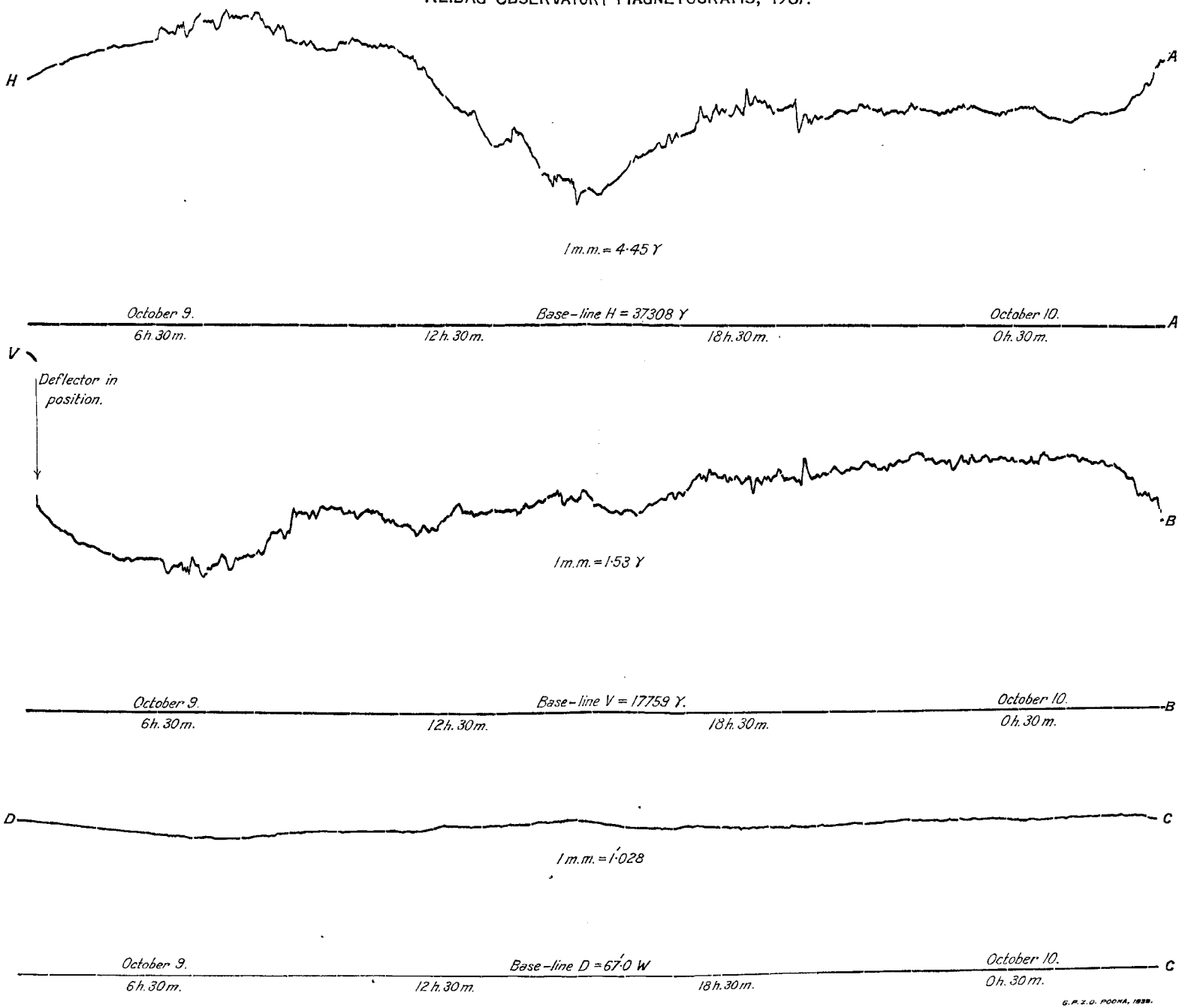
Plate IV.



G.P.I.O. POONA. 1939

Plate V.

ALIBAG OBSERVATORY MAGNETOGRAMS, 1937.



G.P.Z.O. POONA, 1938.

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